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Perfect score:
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Listing first 45 summaries
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Maximum DB seq length: 2000000000
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Gapop 10.0 , Gapext 0.5
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A; Status A; Molecu A; Residu A; Cross- A; Note:	A; Mol A; Res A; Exp R; Cur Mol A; Tit A; Ref A; Acc	A; Mold A; Res A; Crc A; Exp A; Tak B; Tit A; Ref A; Acc	A; Mol A) Res A) Crc A) Exp R; Ber Bioch A; Ref	A; Res A; Res R; Fur Bioch A; Tit	RESULT JC1104 angiotta ny Alter C; Spec: C; Acces R; Mauz; Biocheus A; Titl A; Titl		2222
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	pe: mRNA -359 (TAK) il source: liver il; Pascoe, L.; Whi iol. 6, 1113-1118, iotic analysis of the tic analysis of the company of the co	A, Molecule type: mRNA A; Residues: 1-359 <ber> A; Cross-references: GB.M87290; A; Cross-references: Gb.M87290; A; Experimental source: liver R; Takayanag1, R; Ohnaka, K; Biochem. Biophys. Res. Commun. A; Title: Molecular cloning, se A; Reference number: J10267; MU A; Accession: J10267</ber>	DNA SOURCE: DNA SOURCE: EMBL SOURCE: 1 SOURCE: 1 SOURCE: 1 SOURCE: 1 SOURCE: MBL SOURCE: M	DNA DNAUS SUO, D.F.; SUO, D.F.; YS. Res. C YS. Res. C Ilar cloni nber: JQ14	receptor mes: angio sapiens -1992 #seg -1104; JQ1 Hwang, O. Fwang, O. Gys. Res. C g, expres nber: JC11		6655.4444.333.333
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1, NCBIP:111833)	II receptor.	.1; PID:g178683 e, T.; Haji, M.; Inagami, T. ion of a cDNA encoding human	Kersten, H.; Elshourbagy, N. sin II type 1 receptor.	ding human angiotensin II t	change 21-Jul-2000 3983 F.Z. gene encoding the human angio		conserved hypothet hypothetical prote 6-phosphofructokin emp3 protein - mal hypothetical prote hypothetical prote hypothetical prote lins P4-binding pro hypothetical prote hypothetical prote erythrocyte membra probable ubiquinol hypothetical prote erythrocyte membra probable ubiquinol hypothetical prote ribosome releasing flagellar protein hypothetical hypothet

C;Genetics: A;Gene: GDB:AGTR1

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A;Cross-references: GDB:132359; OMIM:1U01b5
A;Map position: 3q21-3q25
C;Superfamily: vertebrate rhodopsin
C;Keywords: G protein-coupled receptor; glycoprotein; hormone receptor; tr
F;30-53/Domain: transmembrane #status predicted <TM1>
F;65-90/Domain: transmembrane #status predicted <TM2>
F;103-124/Domain: transmembrane #status predicted <TM4>
F;103-124/Domain: transmembrane #status predicted <TM5>
F;145-167/Domain: transmembrane #status predicted <TM5>
F;194-216/Domain: transmembrane #status predicted <TM5>
F;241-264/Domain: transmembrane #status predicted <TM6>
F;281-305/Domain: transmembrane #status predicted <TM7>
F;4,176,188/Binding site: carbohydrate (Asn) (covalent) #status predicted
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A; Experimental :
C; Superfamily: v
                                                                                                               R;Sasamura, H.; Hein, L.; Krieger, J.E.; Pratt, R.E.; Kobilka, B.K.; Dzau, V.J. Biochem. Biophys. Res. Commun. 185, 253-259, 1992
A;Title: Cloning, characterization, and expression of two angiotensin receptor (AT-1) A;Reference number: JH0621; MUID:92287102; PMID:1599461
A;Accession: JH0622
                                                                                                                                                                                                                                                                                                                  R;Yoshida, H.; Kakuchi, J.; Guo, D.F.; Furuta, H.; Iwai, N.; van der Meer-de Jong, R.; I Biochem. Biophys. Res. Commun. 186, 1042-1049, 1992
A;Title: Analysis of the evolution of angiotensin II type 1 receptor gene in mammals (md A;Reference number: JC1193; MUID:92359981; PMID:1497638
A;Accession: JC1194
A; Experimental
C; Superfamily:
                         A;Molecule type: DNA A;Molecule type: DNA A;Nolecule type: T', 17, 8-165, 'H', 167-172, 'E', 174-204, 'V', 206-231, 'T', 233-238, 'F', 240-359 A;Residues: 1-6, 'I', 8-165, 'H', 167-172, 'E', 174-204, 'V', 206-231, 'T', 233-238, 'F', 240-359 A;Cross-references: GB:S37491; NID:g249947; PIDN:AAB22270.1; PID:g249948 A;Experimental source: Balb/c
                                                                                                                                                                                                                                                                                                                                                                                                                                             angiotensin II receptor 1B - mouse C;Species: Mus musculus (house mouse) C;Date: 17-Apr-1993 #sequence_revision C;Accession: JC1194; JH0622
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        angiotensin II receptor type 1 - dog
C;Species: Canis lupus familiaris (dog)
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Nov-1999
C;Accession: S44425
R;Burns, L.; Clark, K.L.; Bradley, J.; Robertson, M.J.; Clark, A.J.L.
FEBS Lett. 343, 146-150, 1994
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S44425
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Best Local :
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Map position: 3q21-3q25
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Pred. No.
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Pred. No.
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A42656
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A48857
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C;Species: Rattus norvegicus (Norway rat)
C;Date: (04-Mar-1993 #sequence_revision 18-Nov-1994 #text_change
C;Accession: A42556; S20423
R;Sandberg, K; Ji, H; Clark, A.J.; Shapira, H.; Catt, K.J.
Jiol. Chem. 267, 9455-9458, 1992
A;Title: Cloning and expression of a novel angiotensin II recept
A;Reference number: A42656; MUID:92250585; PMID:1374402
A;Accession: A42656
R;Iwai, N.; Inagami, T.
FEBS Lett. 298, 257-260, 1992
A;Title: Identification of two subtypes in the rat type
A;Reference number: S20423; MUID:92183879; PMID:1544458
                                                                                                     A; Note: sequence extracted R; Iwai, N.; Inagami, T. FEBS Lett. 298, 257-260, 19
                                                                                                                                                                                                                                                                              A;Cross-references: GB:M90065; NID:g202801; PIDN:AAA40704.1; A;Experimental source: adrenal cortex
                                                                                                                                                                                                                                                                                                                                                                                         A; Molecule type: mRNA
A; Residues: 1-359 <SAN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Experimental source: proximal tubule cells
A;Note: sequence extracted from NCBI backbone (NCBIN:129600, A;Note: Sequence extracted from NCBI backbone (NC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R:Burns, K.D.; Inagami, T.; Harris, R.C.
Am. J. Physiol. 264, F645-F654, 1993
A; Title: Cloning of a rabbit kidney cortex
A; Reference number: A48857; MUID:93236091;
A; Accession: A48857
A; Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C; Keywords: G protein-coupled receptor; glycoprotein; ph F;30-53/Domain: transmembrane #status predicted <TM1>F;65-90/Domain: transmembrane #status predicted <TM2>F;103-123/Domain: transmembrane #status predicted <TM3>F;147-166/Domain: transmembrane #status predicted <TM4>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             angiotensin II receptor type 1B (AT3) - rat N; Alternate names: angiotensin II receptor chain B
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A; Residues: 1-359 <BUR>
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ng site: phosphate (Ser) (covalent) #status predicted
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 52; DB Pred. No. 0.0; Mismatches
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0.062;
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                                                                                                                                                                                                                      (NCBIN:100262,
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                                                        I angiotensin II receptor.
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C;Superfamily: vertebrate rhodopsin
C;Seywords: G protein-coupled receptor; glycoprotein; pho
C;Reywords: G protein-coupled receptor; glycoprotein; pho
F;27-53/Domain: transmembrane #status predicted <TMM2>
F;65-90/Domain: transmembrane #status predicted <TMM3>
F;103-125/Domain: transmembrane #status predicted <TMM4>
F;104-166/Domain: transmembrane #status predicted <TMM4>
F;104-216/Domain: transmembrane #status predicted <TMM6>
F;278-304/Domain: transmembrane #status predicted <TMM7>
F;278-304/Domain:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Molecule type: mRNA
A; Residues: 84-119,'T',121-224,'A',226-259 <YEM>
A; Cross-references: GB:S37461; NID:g249938; PIDN:AAB22267.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Title: Characterization of A; Reference number: PH0850; A; Accession: PH0850
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A; Residues: 1-74, 'L', 76-119, 'T', 121-224, 'A', 226-359 <KAK>
A; Residues: 1-74, 'L', 76-119, 'T', 121-224, 'A', 226-359 <KAK>
A; Cross-references: GB: M87003; NID: 920920; PIDN: AAA40739.1;
A; Experimental source: anterior pituitary
A; Experimental source: anterior pituitary
B; Ye, M.Q.; Healy, D.P.
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A;Note: the authors translated the codon AGC for residue 120 as Thr, GTC fo A;Note: the authors translated the codon AGC for residue 120 as Thr, GTC fo R;Kakar, S.S.; Sellers, J.C.; Devor, D.C.; Musgrove, L.C.; Neill, J.D. Biochem. Biophys. Res. Commun. 183, 1090-1096, 1992
A;Title: Angiotensin II type-1 receptor subtype CDNAs: differential tissue A;Reference number: JH0578; MUID:92231868; PMID:1567388
A;Accession: JH0578
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A;Molecule type: mRNA
A;Molecules: 1-359 <IWA>
A;Residues: 1-359 <IWA>
A;Cross-references: GB:X64052; NID:g57521; PIDN:CAA45410.1; PID:g57522
C;Superfamily: vertebrate rhodopsin
C;Keywords: G protein-coupled receptor; transmembrane protein
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RESULT 7
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Characterization of an angiotensin type-
nce number: PHO850; MUID:92287094; PMID:1
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C.Accession: JH0621; JC1193
C.Accession: JH0621; JC1193
C.Accession: JH0621; JC1193
G.Accession: JH0621; JC1193
G.Accession: JH0621; JC1193
G.Accession: JH0621; Krieger, J.E.; Pratt, R.E.; Kobilka, B.K.; Dzau, V.J.
Biochem. Biophys. Res. Commun. 185, 253-259, 1992
A;Title: Cloning, characterization, and expression of two angiotensin receptor (AT-1)
A:Reference number: JH0621; MUID:92287102; PMID:1599461
                                                                                                                                 A; Molecule type: DNA
A; Residues: 1-359 <SAS>
A; Cross references: GB:S37484; NID:g249945; PIDN:AAB22269.1;
A; Experimental source: strain Balb/c
                                                                                                                                                                                                                                                                                                                                                                           angiotensin II receptor 1A - mouse
C;Species: Mus musculus (house mouse)
C;Date: 17-Aug-1992 #sequence_revision 17-Aug-1992 #text_change 24-Nov-1999
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A;Title: Cloning and expression of a complementary DNA encoding a bovine adrenal angi A;Reference number: S15403; MUID:91251900; PMID:2041569
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A;Title: Novel subtype of human angiotensin II type 1 receptor:
A;Reference number: 139418; MUID:94183213; PMID:8135787
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A; Accession: S15403
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C;Species: Bos primigenius indicus x Bos primigenius taurus (cattle)
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 24-Nov-1999
C;Accession: S15403
                      A; Reference number: JC1193; A; Accession: JC1193
                                                                   R;Yoshida, H.; Kakuchi, J.; Guo, D.F.; Furuta, H.;
Biochem. Biophys. Res. Commun. 186, 1042-1049, 1992
A;Title: Analysis of the evolution of anglotensin I
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A; Residues: 1-359 < RES>
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A; Accession: 139418
A; Status: preliminary;
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A; Residues: 1-359 <SAS>
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F;103-123/Domain: transmembrane #status predicted <TM3> F;147-167/Domain: transmembrane #status predicted <TM4> F;195-218/Domain: transmembrane #status predicted <TM5> F;195-218/Domain: transmembran
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F;27-86/Jomain: transmembrane #status predicted <TM1>
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A; Residues: 1-359 < IRMA;
R; IRMAL, N.; Yamano, Y.; Chaki, S.; Konishi, F.; Bardhan,
Biochem. Biophys. Res. Commun. 177, 299-304, 1991
A; Title: Rat angiotensin II receptor: cDNA sequence and r
A; Reference number: JQ1055; MUID:91254291; PMID:2043116
A; Accession: JQ1055
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A; Residues: 1-359 <CON>
A; Residues: 1-359 <CON>
A; Note: the amino acid sequence of this protein is
R; Murphy, T.J.; Alexander, R.W.; Griendling, K.K.;
Nature 351, 233-236, 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   angiotensin II receptor type 1A - rat
N;Alternate names: ATIa receptor, AT3 receptor
C;Species: Rattus norvegicus (Norway rat)
C;Date: 28-Aug-1985 #sequence_revision 07-Oct-1994 #text_change 24-Nov-1999
C;Accession: JC2134; S15404; S20424; JQ1055
R;Conchon, S:; Monnot, C:; Sirielx, M.E.; Bihoreau, C:; Corvol, P.; Clauser, E.
Biochem. Biophys. Res. Commun. 199, 1347-1354, 1994
A;Title: Synthetic cDNA encoding the rat ATIA receptor: a useful tool for structure-fund
A;Reference number: JC2134; MUID:94197726; PMID:8147879
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F;286-306/Domain: transmembrane #status predicted <TM7>
F;4,176,188/Binding site: carbohydrate (Asn) (covalent) #status predicted
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Molecule type: mRNAA, A;Molecule type: mRNAA, A;Residues: 1-80, (C',82-108, 'T',110-359 <IW2>A;Residues: 1-80, (C',82-108, 'T',110-359 <IW2>A;Cross-references: GB:M74054; NID:g202918; PIDN:AAA40738.1; PID:g202919A;Experimental source: kidney
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A;Title: Identification of two subtypes in A;Reference number: S20423; MUID:92183879; A;Accession: S20424
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A; Residues: 1-359 < MUR>
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;240-263/Domain: transmembrane #status predicted <TM6>;278-299/Domain: transmembrane #status predicted <TM7>;4,176,188/Binding site: carbohydrate (Asn) (covalent)
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Pred. No. 0.062;
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      al protein T15B3.110 - Arabidopsi
Arabidopsis thaliana (mouse-ear
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A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-244 <STO>
                                                                                                                                                                                                                                                                                                                          A;Title: Genome sequence of the endocellular bacterial symbiont of aphids Buchnera A;Reference number: A84930; MUID:20445173; PMID:10993077 A;Accession: G84970
                                                                                                                                                                                         A; Gene: fabG; BU351
                                                                                                                                                                                                                             A; Experimental source: strain
                                                                                                                                                                                                                                               A; Cross-references: GB: AP000398;
                                                                                                                                                                                                                                                                                                                                                                                    R;Shigenobu, S.; Watanabe, Nature 407, 81-86, 2000
                                                                                                                                                                                                                                                                                                                                                                                                                            C; Accession: G84970
                                                                                                                                                                                                                                                                                                                                                                                                                                          C;Species: Buchnera sp.
C;Date: 02-Mar-2001 #sequence_revision
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A; Residues: 1-326 <K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Status: preliminary; translated from GB/EMBL/DDB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Title: Biochemical and molecular characterization of the A;Reference number: I40789; MUID:94266715; PMID:8206840 A;Accession: I40790
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R;Kruger, N.; Oppermann, F.B.; Lorenzl, H.; Steinbuchel, J. Bacteriol. 176, 3614-3630, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C; Accession: I40790
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C;Date: 04-Sep-1997 #sequence_revision 04-Sep-1997 #text_change 15-Oct-1999
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                                                                                                                                                                     :Superfamily: ribitol dehydrogenase; short-chain alcohol dehydrogenase homology
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39 EDGVKRIND 47
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les 7; Conserv
                                  1 EDGIKRIQD 9
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                                                                        Similarity 7; Conserv
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                                                                                        76.9%;
77.8%;
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                                                                                        Score 40; DB Pred. No. 7.1;
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Pred. No.
                                                                      Mismatches
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RESULT 15
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G88124
                                                                                                                                                                                                                                      nuclear receptor NHR-16 · Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 09-Jun-2000 #sequence_revision 09-Jun-2000 #text_change 21-Jul-2000
C;Accession: T43355
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A; Molecule type: DNA
A; Residues: 1-387 <STO>
A; Residues: 1-387 <STO>
A; Cross-references: GB:chr_II; PIDN:AC71144.1; PID:g3844613; GSPDB:GN00020; CESP:T12C9.
A; Note: T12C9.1; coded for by C. elegans cDNA CEESU44R
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C;Species: Caenorhabditis elegans
C;Species: 10-May-2001 #sequence_revision 10-May-2001 #text_change 10-May-2001
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A; Accession: T48951
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A;Cross-references: EMBL:AF083231; NID:g4139087; PIDN:AAD03689.1; PID:g4139088
C;Genetics:
                                                                     A;Status: preliminary; translated from GB/EMBL/DDBJA;Molecule type: mRNA
                                                                                                                   A;Title: The nuclear receptor superfamily has undergone extensive A;Reference number: Z22443; MUID:99148134; PMID:10022975 A;Accession: T43355
                                                                                                                                                                                               R;Sluder, A.E.; Mathews, S.W.; Hough, D.; Yin, V.P.; Maina, C.V. Genome Res. 9, 103-120, 1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Title: Genome sequence of the nematode C. elegans: a platform for investigating biolog A;Reference number: A75000; MUID:99069613; PMID:9851916
A;Roference number: A75000; MUID:99069613; PMID:9851916
A;Note: see websites genome.wustl.edu/gsc/C_elegans/ and www_sanger.ac.uk/Projects/C_elegans/ and www_sanger.ac.uk/Projects/C_elegans/ appeared in Science 283, 35, 1999; Science 283, 2103, 1999; and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R;anonymous, The C. elegans Sequencing Consortium Science 282, 2012-2018, 1998
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A; Introns: 72/2
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A; Residues: 1-12 < JOR>
A; Cross-references: EMBL:AL163975; GSPDB:GN00061; ATSP:T15B3.110
A; Experimental source: cultivar Columbia; BAC clone T15B3
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                                              A; Residues: 1-388 <SLU>
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Best Local :
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354 QKGVRRIQDD 363
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Pred. No. 5.3;
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27;
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A;Gene: nhr-16
A;Map position: 2
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                            Query Match
Best Local Similarity
Matches 6; Conser
355 QKGVRRIQDD
              1 EDGIKRIQDD 10
                              Conservative
                                      73.1%;
                                      Score 38;
Pred. No.
                              Mismatches
                                      DB
27;
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Search completed: November 12, 2002, 16:17:52 Job time: 16 secs

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Result
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Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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08tbk4 homo sapien
09gln9 pan troglod
09n0u1 ovis aries
09eqr9 meriones un
09flw8 arabidopsis
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060303 homo sapien	Q9u0kl plasmodium	Q9gz01 plasmodium	P91573 caenorhabdi	Q9nbw7 drosophila	Q9vah5 drosophila	Q98bj0 rhizobium 1		O58649 pyrococcus		O		Q9lsr0 arabidopsis	Q8y8x3 listeria mo	listeria		Q58498 methanococc	Q9bh37 drosophila	Q9tlh0 lactobacill	\circ		Q9va56 drosophila	a	5 arab	Q9p1z9 homo sapien	9f168	В	91xw2	Q9ffl2 arabidopsis

ALIGNMENTS

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Q1-MAY-2000 (TrEMBLrel. 13,
Q1-MAY-2000 (TrEMBLrel. 13,
Q1-MAR-2002 (TrEMBLrel. 20,
                                                                                                             InterPro; IPR000276; GPCR_Rhodpsn.

Pfam; PF00001; 7tm_1; 1.

PRINTS; PR00237; GPCRRHODDSN.

PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.

PROSITE; PS00262; G_PROTEIN_RECEP_F1_2; 1.

G-protein coupled receptor; Glycoprotein; Transmembrane.

SEQUENCE 343 AA; 39155 MW; 2CC6A22004CCA93C CRC64;
                                                                                                                                                                                                               Murphy T.J., Takeuchi K., Alexander R.W.;
"Molecular cloning of AT1 angiotensin receptors.";
Am. J. Hypertens. 5:236-236(1992).
-!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN (BY SIMILARITY).
-!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
HSSP; P34996; 1DDD.
                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus. NCBI_TaxID-10118;
                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
MEDLINE=93176370; PubMed=1290618;
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01-MAR-2002 (TrEMBLrel. 20, Las
Angiotensin II type-1 receptor.
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Pfam; PF00001; 7tm_1; 1.

PRINTS; PR00237; GPCRHODOPSN.

PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.

PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.
                                                                                                                                                                                                                                             G-protein coupled receptor; G SEQUENCE 359 AA; 41033 MW;
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-!- SIMILARITY: BELONGS TO FAMILY 1
EMBL; AF193445; AAG28410.1; -.
HSSP; P34996; IDDD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Human-Chimpanzee DNA sequence variation the renin angiotensin system."; Genomics 69:14-26(2000).
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Jeunemaitre X.;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae
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1 OF G-PROTEIN COUPLED RECEPTORS.
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RESULT Q9NOU1

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Best Local S
Matches 10
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                     TISSUE-GALL BLADDER;
Busmann A. Noack T., Zucht HD., Fors
"Isolation of Angiotensin I from hums
modulator of KATP channels.";
Submitted (NOV-2000) to the EMBL/Geni
-!- SUBCELLULAR LOCATION: INTEGRAL MI
-!- SIMILARITY: BELONGS TO FAMILY 1 (
EMBL: AJ301623; CAC21550.1; -...
                                    InterPro; 1PROVOL: 7tm_1; 1.

Pfam; PF00001; 7tm_1; 1.

PRINTS; PR00237; GPCRHODDPSN.

PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.

PROSITE; PS00237; G_PROTEIN_RECEP_F1_2; 1.

PROSITE; PS50262; G_PROTEIN_RECEPTOT; F1.

PROSITE; PS50262; G_PROTEIN_RECEPTOT;

1. 1045 MW; D00F4C2C472DE5CC CRC(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cavia porcellus (Guinea pig).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-MAR-2001 (TrEMBLrel. 16, Cre 01-MAR-2001 (TrEMBLrel. 20, Las 01-MAR-2002 (TrEMBLrel. 20, Las Angiotensin II type 1 receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Interpro; IPR000276; GPCR_Rhodpsn.
pfam; pF00001; 7tm_l; 1.
pRINTS; PR00237; GPCRHODOPSN.
pROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.
pROSITE; PS00237; G_PROTEIN_RECEP_F1_2; 1.
G-protein coupled receptor; Glycoprotein; 1
G-protein coupled receptor; Glycoprotein; 1
SEQUENCE 359 AA; 41062 MW; C07010EDB81:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Endocr. Res. 0:0-0(2000).
-i- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN (BY SIMILARITY).
-i- SUBCELLULAR LOCATION INTEGRAL MEMBRANE PROTEIN (COUPLED RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=10141;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE=ADRENAL CORTEX;
Bird I.M., Millican D.S.;
"Isolation of a Full Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-CCT-2000 (TrEMBLrel. 15, Cres
01-CCT-2000 (TrEMBLrel. 20, Lass
01-MAR-2002 (TrEMBLrel. 20, Lass
nagiotensin II type 1 receptor.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL; AF254119; AAF66063.1; HSSP; P34996; 1DDD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           R) cDNA."
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ovis aries (Sheep).
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                                                                                                                                                                                                                                    HSSP; P34996; 1DDD.
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llarity 100.0%;
Conservative 0
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94.2%;
90.0%;
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Last annotation update)
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W; C07010EDB81110EB CRC64;
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Score
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Hystricognathi; Caviidae;
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No.
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0.65;
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                     Length
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                                                                                         Transmembrane.
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RESULT
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                                                  SEQUENCE .....STRAIN=COLUMBIA;
MEDLINE=98290546; Pub
Kaneko T., I
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Q9EQR9;
01-MAR-2001
01-MAR-2001
01-JUN-2002
                                                                                                                                                                                     Q9FLW8;
Q9FLW8;
01-MAR-2001
01-MAR-2001
                                                                                                                 01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
Genomic DNA, chromosome 5, Pl clone:MXC20.
Arabidopsis thaliana (Mouse-ear cress).
Eukaryota, Viridiplantae; Streptophyta; Embryophyta;
Spermattophyta; Magnoliophyta; eudicotyledons; core eueurosids.II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                             HSSP; P34996; IDDD.
InterPro; IPRO0276; GPCR_Rhodpsn.
Pfam; PF00001; Trm_1; 1.
Pfam; PF000237; GPCRRHODDPSN.
PROSITE; P800237; G_PROTEIN_RECEP_F1_1; 1.
PROSITE; P850262; G_PROTEIN_RECEP_F1_2; 1.
G-protein coupled receptor; Glycoprotein; Receptor; Tr; G-protein coupled receptor; Glycoprotein; Receptor; Tr; SEQUENCE 359 AA; 40934 MW; 3FAICCEC9B734A29 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                       Meriones unguiculatus (Mongolian jird) (Mongolian gerbil).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Gerbillinae;
"Structural analysis of Arabidopsis thaliana c
Sequence features of the regions of 1,456,315
physically assigned Pl and TAC clones.";
DNA Res. 5.41-54(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TISSUE-ADRENAL GLAND;
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AT1B.
                                           Tabata S
                                                                                                           NCBI_TaxID=3702;
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QDGIKRIQDD 17
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9; Conserv
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                                                                                                                                                                                                                      PRELIMINARY;
                                                  PubMed=9628582;
., Kotani H., Nakamura
                                                                                                                                                                                                                                                                                                                               94.2%;
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Pred. No.
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RESULT
Q9FIU9
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Q9LVQ3;
01-OCT-2000
                                                                                                                                                                                                            Q9FIU9;
Q9FIU9;
01-MAR-2001
                                                                                                                      01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 21, Last sequence update)
01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
Genomic DNA, chromosome 5, pl clone:MRB17.
Arabidopsis thaliana (Mouse-ear cress).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheog Spermatophyta; Magnollophyta; eudicotyledons; core eudicots; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sato S.,
Tabata S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-UN-2002 (TrEMBLrel. 21, Last annotation update)
01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
Genomic DNA, Chromosome 5, P1 clone: MWJ3.
Arabidopsis thaliana (Mouse-ear cress).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL; AB009055; BAB10441.1;
InterPro; IPR005174; DUF295.
Pfam; PF03478; DUF295; 1.
SEQUENCE 359 AA; 39689 MW
"Structural analysis of Arabidopsis thaliana of Sequence features of the regions of 1,013,767 physically assigned P1 and TAC clones.";
                                      Nakamura Y
Tabata S.;
                                                              MEDLINE=99087489;
                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                          DNA Res. 7:31-63(2000).
EMBL; AB018120; BAA97286.1;
InterPro; IPR005174; DUF295.
Pfam; PF03478; DUF295; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRAIN=COLUMBIA; MEDLINE=20181125;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=3702;
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                                                                       STRAIN-COLUMBIA;
                                                                                     SEQUENCE
                                                                                                           NCBI_TaxID=3702;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       features
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Y., Kaneko T., Katoh T.,
                                                PubMed=9872454;
S., Asamizu E.,
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80.0%;
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Pred. No.
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              chromosome
7 bp covered
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Q9FLN7;
01-MAR-2001
01-MAR-2001
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Pfam; PFO:
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                          "Structural analysis of Arabidopsis thaliana c
Sequence features of the regions of 1,456,315
physically assigned Pl and TAC clones.";
DNA Res. 5:41-54(1998).
EMBL; AB010071; BAB08596.1; -
INTERPO: IPR005174; DUT295.
Pfam; PF03478; DUT295; 1.
SEQUENCE 361 AA; 40320 MW; 61F2616083455B9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRAIN-COLUMBIA;
MEDLINE-98290546; PubMed-9628582;
Sato S., Kaneko T., Kotani H., Nakamura
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Genomic DNA, chromosome 5, Pl clone:MCO15.
Arabidopsis thaliana (Mouse-ear cress).
Bukaryota; Viridiplantae; Streptophyta; Embryophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core et eurosids II; Brassicales; Brassicaceae; Arabidopsis.
      Kruger N., Oppermann F.B., Lorenzl H., Steinbuchel A.; "Biochemical and molecular characterization of the Clostridium actoin dehydrogenase enzyme system [published erratum appears Bacteriol 1994 Aug;176(16):5193].";
                                                       STRAIN=WO BD P1;
MEDLINE=94266715; PubMed=8206840;
                                                                                  SEQUENCE FROM
                                                                                                                     Bacteria; Firmicutes; Bacillus/Clostridium group; Clostridia; Clostridiales; Clostridiaceae; Clostridium.
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01-MAR-2001 (TrEMBLrel.
01-JUN-2002 (TrEMBLrel.
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NCE 359 AA;
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AB016879; BAB09334.1;
Pro; IPR005174; DUF295.
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(TrEMBLrel. 16, Last sequence update)
(TrEMBLrel. 21, Last annotation update)
chromosome 5, Pl clone:MCO15.
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Pred. No.
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01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence up
01-JUN-2002 (TrEMBLrel. 21, Last annotation
Genomic DNA, chromosome 5, P1 clone:MKB17.
                                                                                                                                                                                                             Arabidopsis thaliana (Mouse-ear cress).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosid
eurosids II; Brassicales; Brassicaceae; Arabidopsis.
NCBI_TaxID-3702;
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01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
01-DUN-2002 (TrEMBLrel. 21, Last annotation update)
Genomic DNA, chromosome 5, Pl clone:MDK4.
Arabidopsis thaliana (Mouse-ear cress).
Arabidopsis thaliana (Mouse-ear cress).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicottyledons; core eudicots; Rosid:
Spermatophyta; Brassicales; Brassicaceae; Arabidopsis.
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EMBL; AB010695; BAB10756.1; -
InterPro; IPR005174; DUF295.
Pfam; PF03478; DUF295. 1
SEQUENCE 356 AA; 39703 MW; 283DEE9743339E64 CRC64;
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"Structural analysis of Arabidopsis thaliana chromosome Sequence features of the regions of 1,013,767 bp covered physically assigned Pl and TAC clones.";
                                                                                                 Nakamura
                                                                                                                     STRAIN=COLUMBIA;
MEDLINE=99087489;
                                                                                                                                                                      SEQUENCE
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Tabata S.;
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01-MAR-2001
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                                                                         Tabata S.
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H., Nakamura Y.,
                                                                                                                     PubMed=9872454;
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                                                                                            Kotani H.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       core eudicots; Rosidae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 356;
                          covered
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
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                                                                                                                                                                                                                                                                Rosidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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OPFK17:

OPFK17:

OFFK17:

OFFK
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OPFLW7;
O1-MAR-2001 (TrEMBLrel. 16, Created)
O1-MAR-2001 (TrEMBLrel. 16, Last sequence update)
O1-JUN-2002 (TrEMBLrel. 21, Last annotation update)
Genomic DNA, chromosome 5, Pl clone:MXC20.
Arabidopsis thaliana (Mouse-ear cress).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
eurosids II; Brassicales; Brassicaceae; Arabidopsis.
                                                                                                             SEQUENCE:
STRAIN-COLUMBIA;
MEDLINE-98290546; PubMed-9628582;
MEDLINE-98290546; Notani H., Na
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Structural analysis of Arabidopsis thaliana chromosome 5. VI. Sequence features of the regions of 1,367,185 bp covered by 19 physically assigned Pl and TAC clones."; DNA Res. 5:203-216(1998).
EMBL; AB013388; BAB09786.1; -.
InterPro; IPR005174; DUF295.
Pfam; PF03478; DUF295; 1.
SEQUENCE 361 AA; 40494 MW; CC045013827EE88A CRC64;
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EMBL; AB016879; BAB09335.1;
InterPro; IPR005174; DUF295.
Pfam; PF03478; DUF295; 1.
SEQUENCE 360 AA; 40036 MW
                                                                                                   Sato S.,
Tabata S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
STRAIN-COLUMBIA;
MEDLINE-98403884; PubMed-9734815;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Arabidopsis thaliana (Mouse-ear cress).

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheo; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; eurosids II; Brassicales; Brassicaceae; Arabidopsis.
              Sequence features
                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=3702;
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"Structural analysis of Arabidopsis thaliana chromosome 5. IV.
Sequence features of the regions of 1,456,315 bp covered by nineteen
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 40; DB Pred. No. 30;
                                                                                                                                           Nakamura Y., Asamizu E., Miyajima
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FA307E30630E9C29 CRC64;
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InterPro: IPR002052; N6_Mtase.
Pfam; PF03478; DUF295; 1.
PROSITE; PS00092; N6_MTASE; UNKNOWN_1.
SEQUENCE 362 AA; 40352 MW; 630B74E8FC0AlA69 CRC64;
                                                                                                                                                     physically assigned P1 and TAC DNA Res. 5:41-54(1998).
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Search completed: November 12, 2002, 16:16:31 Job time: 31 secs

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K6P1_STRCO
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MEDLINE-91251900;
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ALIGNMENTS

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PRINTS; PROUZZI; GPCRHODDESN.

PROSITE; PSOUZZI; GPCRTEIN_RECEP_F1_1; 1.

PROSITE; PSOUZZI; G_PROTEIN_RECEP_F1_2; 1.

PROSITE; PSSOUZZI; G_PROTEIN_RECEP_F1_2; 1.

PRANSMEM 28 52 1 (POTENTIAL)

PRANSMEM 65 87 2 (POTENTIAL)

PRANSMEM 103 124 3 (POTENTIAL)

PRANSMEM 103 124 3 (POTENTIAL)

DOMAIN 125 142 CYTOPLASMIC (POMENTIAL)

PRANSMEM 103 124 4 (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation—the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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01-MAY-1992 (Rel. 22, Last sequence update)
01-NOV-1997 (Rel. 35, Last annotation update)
Type-1 angiotensin II receptor (ATI).
AGTR1.
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HSSP; P34996; 1DDD.

InterPro; IPR000276; GPCR_Rhodpsn.

Pfam; PF00001; 7tm_1; 1.
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"Cloning and expression of a complementary DNA encoding a bovine adrenal angiotensin II type-1 receptor.";

Nature 351:230-233(1991).

1- FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES ITS ACTION BY ASSOCIATION UNTIL GENERAL ACTIVATE A PHOSPHATIDYLINOSITOL-CALCIUM SECOND MESSENGER SYSTEM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea; Bovidae; Bos. NCBI_TaxID-9913;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         -i- SUBCELULAR LOCATION: Integral membrane protein.
-i- TISSUE SPECIFICITY: ADRENAL MEDUILA, CONTEX, AND KIDNEY.
-i- PTM: CARBOXYL-TERMINAL SER OR THR RESIDUES MAY BE PHOSPHORYLATED.
-i- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PubMed=2041569;
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                                                                                                                                               1 (POTENTIAL).
CYTOPLASMIC (FOTENTIAL).
                                                                                                                                                                                                                                                                                                                                 Transmembrane;
                                        EXTRACELLULAR (POTENTIAL)
3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
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Palmitate;
                                                                                                                                                                                                                                                                                     PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.
PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Burns L., Clark K.L., Bradley J., Robertson M.J., Clark A.J.;
"Molecular cloning of the canine angiotensin II receptor. An ATI-like receptor with reduced affinity for Dup753.";
FEBS Lett. 343:146-150(1994).
1- FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES ITS ACTION BY ASSOCIATION WITH G PROTEINS THAT ACTIVATE A PHOSPHATIDYLINOSITOL-CALCIUM SECOND MESSENGER SYSTEM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; (Mammalia; Eutheria; Carnivora;
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Pfam; PF00001; 7tm_1; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           SUBCELLULAR LOCATION: Integral membrane protein. TISSUE SPECIFICITY: ADRENAL, LIVER, AORTA, KIDNEY,
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     n coupled receptor: T

e; Phosphorylation.

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EXTRACELLULAR (POTENTIAL).

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CYTOPLASMIC (POTENTIAL).

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Pred. No. 0.028;
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Canis.
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Best Local S
Matches 10
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Q9WV26;
Q9WV26;
16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
15-JUN-2002 (Rel. 41, Last annotation update)
15-JUN-2002 (Rel. 41, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CARBOHYD
DISULFID
LIPID
              DOMAIN
TRANSMEM
                                                            TRANSMEM
DOMAIN
TRANSMEM
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TRANSMEM
                                                                                                                                                                                                                                                                                                                                                       HOSOGA Y., Fujino I., Akagawa K., Kuwahara A.;

"Molecular cloning of guinea pig angiotensin type 1 receptor.";

Biol. Signals Recept. 9:231-239(2000).

1- FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES ITS ACTION BY

ASSOCIATION WITH G PROTEINS THAT ACTIVATE A PHOSPHATIDYLINOSITOL-

ASSOCIATION WITH G PROTEINS THAT ACTIVATE A PHOSPHATIDYLINOSITOL-

CALCIUM SECOND MESSENCER SYSTEM (BY SIMILARITY).

1- SUBCELLULAR LOCATION: Integral membrane protein.

1- PTM: CARBOXYL-TERMINAL SER OR THR RESIDUES MAY BE PHOSPHORYLATED.

1- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CARBOHYD
CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TRANSMEM
DOMAIN
                                                                                                                                                                                                                                                                                   the European Bioinformatics Institute. There use by non-profit institutions as long as modified and this statement is not removed.
                                                                                                                                     Palmitate;
                                                                                                                                                                                                HSSP; P34996; 1DDD.
InterPro; IPR000276; GPCR_Rhodpsn.
Pfam; PF00001; 7tm_1; 1.
                                                                                                                                                                                                                         EMBL; AF165888; AAD45383.1; -. HSSP; P34996; 1DDD.
                                                                                                                                                                                                                                                            entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                       This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    STRAIN=Hartley; TISSUE=Liver; MEDLINE=20423173; PubMed=10965057;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cavia porcellus (Guinea pig).
Eukaryota; Metazoa; Chordata;
  DOMAIN
                                   TRANSMEM
                                                  DOMAIN
                                                                                                  DOMAIN
                                                                                                                                                G-protein
                                                                                                                                                            PROSITE; PS00237; G_PROTEIN_RECEP_F1_1;
PROSITE; PS50262; G_PROTEIN_RECEP_F1_2;
                                                                                                                                                                                    PRINTS; PR00237; GPCRRHODOPSN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
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                                                                                                                                     Phosphorylation.
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V_RECEP_F1_2; 1.
Transmembrane;
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CYTOPLASMIC (POTENTIAL).
N-LINKED (GLCNAC. . .) (PO
BY SIMILARITY
PALMITATE (POTENTIAL).
PALMITATE (POTENTIAL).
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EXTRACELLULAR
5 (POTENTIAL).
CYTOPLASMIC (P
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EXTRACELLULAR
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2 (POTENTIA)
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                                                                                                            EXTRACELLULAR (POTENTIAL)
1 (POTENTIAL).
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Pred. No. 0.028;
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                                     (POTENTIAL)
                                                            (POTENTIAL)
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FABDAD50E CRC64;
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 (POTENTIAL).
                                               (POTENTIAL).
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                        (POTENTIAL)
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P30556;
01-APR-1993 (Rel. 25, 0
01-APR-1993 (Rel. 25, 1
16-OCT-2001 (Rel. 40, 1
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CARBOHYD
DISULFID
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MEDLINE-92181475; PubMed=1543512;
Furuta H., Guo D.F., Inagami T.;
"Molecular cloning and sequencing of the gene
angiotensin II type 1 receptor.";
"Inagami T.;
"The communication of the gene
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CARBOHYD
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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                 MEDLINE-92375105;
Curnow K.M., Pasco
"Genetic analysis
                                                                       Takayanagi R., Ohnaka K., Sakai Y., Nakao R., Yanase Inagami T., Furuta H., Gou D.F., Nakamuta M., Nawata "Molecular cloning, sequence analysis and expression encoding human type-1 angiotensin II receptor."; Biochem. Biophys. Res. Commun. 183:910-916(1992).
                                                                                                                                                                                          TISSUE-Liver;
MEDLINE-92231907; PubMed-1567413;
Bergsma D.J., Ellis C., Kumar C., Nuthalaganti P.,
Elshourbagy N.A., Griffin E., Stadel J.M., Aiyar N.
"Cloning and characterization of a human angiotensi
                                                                                                                                                                                                                                                                             Biochem.
                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A. MEDLINE-92337608;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Type-1 angiotensin II receptor (AT1) (AT1AR) AGTR1 OR AGTR1A OR AT2R1.
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                                                    SEQUENCE FROM
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                                                                                                                                           TISSUE-I
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                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
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"Cloning, expression, and characterization of a gene

human anglotensin II type 1A receptor."

Biochem. Biophys. Res. Commun. 186:277-284(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=9606;
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        Pascoe L., White P.C.; lysis of the human type-1 nol. 6:1113-1118(1992).
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                              PubMed=1508224;
be L., White P.C.;
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Pred. No. 0.028;
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D (GLCNAC. . .)
D (GLCNAC. . .)
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                   II receptor.";
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EMBL; Z11162; CAA77513.1; -..
EMBL; M87290; AAA35535.1; -..
EMBL; M93394; AAA58370.1; -..
EMBL; S77410; AAA34644.1; -..
EMBL; X65699; CAA46621.1; -..
EMBL; AF245699; AAF70464.1; -..
                    TRANSMEM
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Submitted
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                                                                                                                                        TRANSMEM
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Pfam; PF00001; 7tm_1; 1.
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PIR; JC1104; JC1104.
HSSP; P34996; 1DDD.
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Ikuyama S., Tanaka S., Ohe K.;
"Type I angiotensin II receptors of adrenal tumors.";
                                                                                DOMAIN
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Doria A., Warram J.H., Krolewski A.S.;
PRapid identification of polymorphisms in genomic DNA: a
SNP map of the type i angiotensin ii receptor gene locus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SUBCELLULAR LOCATION: Integral membrane TISSUE SPECIFICITY: LIVER, LUNG, ADRENAL
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RESULT 5
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MGD; MGI:87964; Agtrla.
InterPro; IPR000276; GPCR_Rhodpsn.
Pfam; PF00001; 7tm_1; 1.
PRINTS; PR00237; GPCRRHODOPSN.
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                                                                                                    or send
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                                                                                                                           modified
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                                                                                                                                                                                                                                                                                                                                              "Cloning, characterization, and expression of two angiotensin receptor (AT-1) isoforms from the mouse genome."; Biochem. Biophys. Res. Commun. 185:253-259(1992).
                                                                                                                                                                                                                                                                                                                                                                                                       STRAIN=BALB/C; TISSUE=Liver; MEDLINE=92287102; PubMed=1599461;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
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                                                                                                                         European Bioinformatics Institute. There are no rest
by non-profit institutions as long as its content
ified and this statement is not removed. Usage by an
                                                                                                                                                                                      CALCIUM SECOND MESSENGER SYSTEM.
SUBCELLULAR LOCATION: Integral membrane protein.
PTM: CARBOXYL-TERMINAL SER OR THR RESIDUES MAY BE PHOSPHORYLATED.
SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
                                                       JH0621; JH0621.
JC1193; JC1193.
                                                                                                                                                       SWISS-PROT entry is copyright. It is produced through
een the Swiss Institute of Bioinformatics and the EN
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                                                                                                   s requires a license agreement (See an email to license@isb-sib.ch).
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L -> V (IN DBSNP:2011425).
/FIId=VAR_011846.
C -> W (IN DBSNP:1064533).
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35FC856F53E911A6 CRC64;
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BY SIMILARITY.
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Pred. No. 0.028;
Mismatches
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                                                                                                         Burns K.D., Inagami T., Harris R.C.;
"Cloning of a rabbit kidney cortex Arl angiotensin II receptor that is present in proximal tubule epithelium.";
Am. J. Physiol. 264:F645-F654(1993).
- PUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES ITS ACTION BY ASSOCIATION WITH G PROTEINS THAT ACTIVATE A PHOSPHATIDYLINOSITOI CALCIUM SECOND MESSENGER SYSTEM.
                                                                                                                                                                                                                                                                                01-FEB-1994 (Rel. 28,
01-FEB-1994 (Rel. 28,
01-NOV-1997 (Rel. 35,
Type-1 angiotensin II
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PROSITE; PROSITE;
          the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for con
                                          This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eut
Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.
                                                                                                                                                                                     MEDLINE=93236091; PubMed=7916579;
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                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                             NCBI_TaxID=9986
                                                                                                                                                                                                                                                              Oryctolagus cuniculus (Rabbit)
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                                                                        SUBCELLULAR LOCATION: Integral membrane protein.
PTM: CARBOXYL-TERMINAL SER OR THR RESIDUES MAY BE PHOSPHORYLATED.
SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
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PS50262;
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G_PROTEIN_RECEP_F1_2;
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receptor (AT1).
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T -> I (IN REF. 2).
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Pred. No. 0
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Palmitate;
SEQUENCE FROM N.A.
TISSUE-Kidney;
TISSUE-Kidney;
MEDLINE-91254291; PubMed-2043116;
Iwai N., Yamano Y., Chaki S., Konishi F., Bardhan S., Tibbetts
Sasaki K., Hasegawa M., Matsuda Y., Inagami T.;
"Rat angiotensin II receptor: cDNA sequence and regulation of t
gene expression.";
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PRINTS; PRO0237; GPCRHODOPSN.

PROSITE; PS00237; G_PROTEIN_RECEP_F1_2; 1.

PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.

G-protein coupled receptor; Transmembrane; Glycoprotein;
                                                                                                                                                                                                                                                                   TISSUE-Vascular smooth muscle;
MEDLINE-91251991; PubMed-2041570;
Murphy T.J., Alexander R.W., Griendling K.K., Runge M.S.,
                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Rodentia;
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01-MAY-1992 (Rel. 22, Last seque
16-CCT-2001 (Rel. 40, Last annot
Type-1A angiotensin II receptor
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Sciurognathi; Muridae;
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Pred. No. 0.028;
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Guo D.F., Furuta H., Ohyama K., Kambayashi Y.;
"Cloning, expression and regulation of angiotensin I
Eur. Heart J. 15:104-107(1994)
-!- FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES
ASSOCIATION WITH G PROTEINS THAT ACTIVATE A PHOS
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Langford K.G., Frenzel K., Martin B.M., Bernstein K.E.;
Langford Coganization of the rat AT1 angiotensin receptor.";
"The genomic organization of the rat AT2 angiotensin receptor.";
Biochem. Biophys. Res. Commun. 183:1025-1032(1992).
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PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.
PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.
G-protein coupled receptor; Transmembrane;
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or send an email to license@isb-sib.ch).
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S15404; S15404.

S20424; S20424.

JC2134; JC2134.
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TISSUE SPECIFICITY: IS EXPRESSED IN THE LIVE
LUNG, UTERUS, OVARY, SPLEEN, HEART, ADRENAL
SMOOTH MUSCLE CELL.
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                                                                                                                    (POTENTIAL)
                                                                                                                                  (POTENTIAL)
                                                                                                                                                 (POTENTIAL)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Chaki S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL
                                                                                                                                                                                                                                                                                                                                                                                                  Lipoprotein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AORTA,
VASCULAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a collaboration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  outstation
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Similarity

P Q

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Matches
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O77590;
                                                                                                                                                             InterPro; IPR000276; GPCR_Rhodpsn.
Pfam; pF00001; 7tm_1; 1.
PRINTS; PR00237; GPCRRHODDPSN.
PROSITE; PS00237; G_PROTEIN_RECEP_F1_1;
PROSITE; PS50262; G_PROTEIN_RECEP_F1_2;
G-protein coupled receptor; Transmembran
Palmitate; Phosphorylation.
                DOMAIN
TRANSMEM
                                                           TRANSMEM
DOMAIN
                                                                                        TRANSMEM
DOMAIN
                                                                                                                                                                                                                                                                                                                          This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ovis
                                                                                                                                                                                                                                                                 EMBL; AF069750; AAC99344.1;
EMBL; AF056308; AAC32613.1;
HSSP; P34996; 1DDD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      variants or alternate promoter usage.";
Biol. Reprod. 59:219-224(1998).
-i- FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MED
ASSOCIATION WITH G PROTEINS THAT ACTIVATE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE-98351904; PubMed-9687288;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE=Adrenal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   angiotensin II type-1 receptor.
Endocr. Res. 24:387-390(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Millican D.S., Bird I.M.; "Isolation of an ovine genomic sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A. MEDLINE=99103586;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bovidae; Caprinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mammalia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Type-1 angiotensin AGTR1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           16-OCT-2001 (Rel. 40, 16-OCT-2001 (Rel. 40, 16-OCT-2001 (Rel. 40,
                                                                                                                     DOMAIN
                                                                                                                                    TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Specific pregnancy-induced angiotensin II type-1 receptor expression in ovine uterine artery does not involve formation of alternate splice
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE OF 1-132 FROM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=9940;
                                                                                                                                                  DOMAIN
                                             RANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
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                                                                                                                                                                                                                                                                                                                                                                                                                                           CALCIUM SECOND MESSENGER SYSTEM.
SUBCELLULAR LOCATION: Integral membrane protein.
PTM: CARBOXYL-TERMINAL SER OR THR RESIDUES MAY BE PHOSPHORYLATED.
SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             I.M., Millican D.S., Magness R.R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 aries (Sheep).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EDGIKRIQDD 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10;
Eutheria;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cortex;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PubMed=9888511;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ovis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              II receptor (AT1).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chordata; Craniata; Vertebrata; Euteleostomi; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Last sequence up
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Created)
                                                                                                                                                                             N_RECEP_F1_1; 1.
N_RECEP_F1_2; 1.
; Transmembrane;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
   EXTRACELLULAR (POTENTIAL) 5 (POTENTIAL). CYTOPLASMIC (POTENTIAL).
                                                           CYTOPLASMIC
                                                                                        EXTRACELLULAR
                                                                                                                     CYTOPLASMIC
                                                                                                                                                EXTRACELLULAR (POTENTIAL)
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                                               (POTENTIAL)
                                                                                                       (POTENTIAL).
                                                                                                                                    (POTENTIAL)
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                                                           (POTENTIAL)
                                                                                                                   (POTENTIAL).
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ATE A PHOSPHATIDYLINOSITOL-
                                                                                        (POTENTIAL)
                                                                                                                                                                             Glycoprotein;
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                                                                                                                                                                               Lipoprotein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0;
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AG2S_HUMAN
      밁
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-NOV-1997 (Rel. 35,
16-OCT-2001 (Rel. 40,
Type-IB angiotensin 1
AGTRIB OR ATZRIB.
                                             DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DISULFID
LIPID
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TRANSMEM
                                                                                                                                                                                                                                               modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                            "Novel subtype of human angiotensin II type 1 receptor: cDNA cloning and expression.";
Biochem. Biophys. Res. Commun. 199:467-474(1994).
-i- FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES ITS ACTION BY ASSOCIATION WITH G PROTEINS THAT ACTIVATE A PHOSPHATIDYLINOSITOL-
                                                                                                                                                                             EMBL; D13814; BAA02968.1; -.
HSSP; P34996; IDDD.
InterPro; IPR000276; GPCR_Rhodpsn.
Pfam; PF00001; 7tm_1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AG2S_HUMAN
Q13725;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CARBOHYD
                                                                                                                       G-protein
                                                                                                                                                                                                                                                                                             This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE=94183213;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-NOV-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE
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    DOMAIN
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                                   DOMAIN
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                                                                                          DOMAIN
                                                                                                       Palmitate;
                                                                                                                                    PROSITE;
                                                                                                                                                  PROSITE;
                                                                                                                                                                   PRINTS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Konishi H., Kuroda
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TISSUE=Placenta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens (Human)
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                                                                                                                                                                                                                                                                                                                                                          PTM: CARBOXYL-TERMINAL SER OR THR RESIDUES MAY BE PHOSPHORYLAR SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS
                                                                                                                                                                                                                                                                                                                                                                                                  SUBCELLULAR LOCATION: Integral membrane purissue SPECIFICITY: EXPRESSED IN THE LUNG
                                                                                                                                                                                                                                                                                                                                                                                                                                CALCIUM SECOND MESSENGER SYSTEM.
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10; Conserv
                                                                                                                                                PR00237; GPCRRHODOPSN.; PS00237; G_PROTEIN_RE
                                                                                                                                    PS50262;
                                                                                                                       coupled
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    188
101
355
359
                                                                                                    Phosphorylation
      28
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10
                                                                                                                       receptor;
                                                                                                                                   G_PROTEIN_RECEP_F1_1; 1.
G_PROTEIN_RECEP_F1_2; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PubMed=8135787;
a S., Inada Y.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    40,
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σ (π
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1188
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64
87
102
124
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0, Last annotation updat
II receptor (AT1B) (AT1
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                                                                                                                       Transmembrane;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              7 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
N-LINKED (GLCNAC. . .) (
N-LINKED (GLCNAC. . .)
   EXTRACELLULAR (POTENTIAL) 3 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 52;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PALMITATE (POTENTIAL).
C07010F1A4110CF7 CRC64;
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N-LINKED (GLCNAC. . .) (POTENTIAL)
N-LINKED (GLCNAC. . .) (POTENTIAL)
BY SIMILARITY.
                                             CYTOPLASMIC
2 (POTENTIAL
                                                                                        EXTRACELLULAR
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EXTRACELLULAR (POTENTIAL).
7 (POTENTIAL).
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0.028;
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                                                              (POTENTIAL).
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                                                                                                                     Glycoprotein;
                                                                                          (POTENTIAL)
                                                                                                                                                                                                                                                                                                                                                                                                                    protein
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                                                                                                                                                                                                                                                                                                                                                                                       PHOSPHORYLATED.
                                                                                                                       Lipoprotein;
                                                                                                                                                                                                                                                                                                                                                                        RECEPTORS.
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RESULT
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Best Local S
Matches 10
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DISULFID
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DOMAIN
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DOMAIN
                                                                               This SWIS between the Europ
                                                                                                                 Type-1B angiotensin II receptor (ATIB) (AT3).
                                                                                                                                                                                                                                                                                                                                                                                                                  AG2S_MOUSE
P29755;
                                                                                                                                                                                                                                                                                                                                                                                                                                     MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TRANSMEM
DOMAIN
                                        entities
or send a
                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
STRAIN-BALB/C; TISSUE-Liver;
MEDLINE-92287102; PubMed-159
                                                                                                                                                                                                                                                                                                                                                                                       01-APR-1993 (Rel. 25,
01-APR-1993 (Rel. 25,
01-NOV-1997 (Rel. 35,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TRANSMEM
DOMAIN
                                           the European Bioinformatics Institute. The use by non-profit institutions as long a modified and this statement is not removed. entitles requires a license agreement (See lor send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CARBOHYD
EMBL; $37491; AAB22270.1; -- PIR; JH0622; JH0622. PIR; JC1194; JC1194. HSSP; P34996; 1DDD.
                                                                                                                                                                                                                      SEQUENCE FROM N.A. MEDLINE-92359981;
                                                                                                                                                                                                                                                 Biochem.
                                                                                                                                                                                                                                                                                     Sasamura H., Hein L.,
                                                                                                                                                                                                                                                                                                                                  Mammalia; Eutheria;
NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                    Eukaryota;
                                                                                                                                                                                                                                                                                                                                                              Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LIPID
                                                                                                                                                                                                                                                                   Cloning, characterization,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          æ
                                                                                        SWISS-PROT entry is copyright. It is produced through a collaboration een the Swiss Institute of Bioinformatics and the EMBL outstation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EDGIKRIQDD 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EDGIKRIQDD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                Biophys.
                                                                                                                                                                                                                                                 (AT-1) isoforms from the mouse genome."; Biophys. Res. Commun. 185:253-259(1992).
                                                                                                                                                                                                                                                                                                                                   us (Mouse).
Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
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Last annotation updat
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5 (POTENTIAL).
CYTOPLASMIC (POTENTIAL).
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CYTOPLASMIC (GDCNAC...) (POTENTIAL)
N-LINKED (GLCNAC...) (POTENTIAL)
N-LINKED (GLCNAC...) (POTENTIAL)
N-LINKED (GLCNAC...) (POTENTIAL)
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Pred. No.
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                                                    . Usage by and for commercial http://www.isb-sib.ch/announce/
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RESULT 11
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Matches 10
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01-DEC-1992 (Rel. 24, Last sequence update)
01-NOV-1997 (Rel. 35, Last annotation update)
17ype-lB angiotensin II receptor (ATIB) (AT3).
AGTRIB OR ATIB.
Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chordata; Craniata; Verteb Mammalla; Eutheria; Rodentia; Sciurognathi; Mu NCBI_TaxID=10116;
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PROSITE; PS00237; G_PROTEIN_RECEP_F1_1;

PROSITE; PS50262; G_PROTEIN_RECEP_F1_2;
SEQUENCE FROM N.A.
TISSUE-Adrenal cortex:
TISSUE-Adrenal cortex:
MEDLINE-92250585; PubMed=1374402;
Sandberg K., Ji H., Clark A.J., Shapira H.,
"Cloning and expression of a novel angioten
J. Biol. Chem. 267:9455-9458(1992).
                                                                                                                                                                  STRAIN=Sprague-Dawley;
MEDLINE=92183879; PubMed=1544458;
Iwai N., Inagami T.;
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PALMITATE (POTENTIAL)

I -> T (IN REF. 2).

H -> Y (IN REF. 2).

E -> A (IN REF. 2).

V -> E (IN REF. 2).
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               apira H., Catt K.J.;
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EMBL; M97003; AAA40739.1; -.
PIR; A42656; A42656.
PIR; S20423; S20423.
PIR; J40578; J40578.
PIR; J05516; J01516.
PIS; P34996; IDDD.
HSSP; P34996; IDDD.
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"Isolation of two distinct type I angiotensin II receptor genes Biochem. Blophys. Res. Commun. 184:1067-1073(1992).
-I- FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES ITS ACTION ASSOCIATION WITH G PROTEINS THAT ACTIVATE A PHOSPHATIDYLING ASSOCIATION WITH G PROTEINS THAT ACTIVATE A PHOSPHATIDYLING
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MEDLINE-92231868; PubMed-1567388;
Kakar S.S., Sellers J.C., Devor D.C., Mu
"Angiotensin II type-1 receptor subtype
"Angiotensin and hormonal regulation.";
Biochem Fisch."
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PRINTS; pR00237; GPCRHODOPSN.

PROSTIE; PS00237; G_PROTEIN_RE

PROSITE; PS50262; G_PROTEIN_RE
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an C.C., Taylor G.
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G_PROTEIN_RECEP_F1_2; 1.
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L -> Y (IN REF. 4).
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RESULT 12
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and peripheral tissues.";
Brain Res. Mol. Brain Res. 60:234-246(1998).
-!- FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES ITS ACTION BY
-!- FUNCTION: RECEPTOR FOR ANGIOTENSIN ACTIVATE A PHOSPHATIDYLINOSITOL-
                                                                                                                                                                                                                                                                                                                                                                    G-protein coupled receptor Palmitate; Phosphorylation
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PROSITE; PS00237; G_PROTEIN_RE
PROSITE; PS50262; G_PROTEIN_RE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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Pfam; PF00001; 7tm_1; 1.
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HSSP; P34996; 11
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Gerbillinae;
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SUBCELLULAR LOCATION: Integral membrane protein.
PTM: CARBOXYL-TERMINAL SER OR THR RESIDUES MAY BE PHOSPHORYLATED.
SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
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G_PROTEIN_RECEP_F1_2; 1.
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P30555;

01-APR-1993 (Rel. 2

01-APR-1993 (Rel. 2

01-NOV-1997 (Rel. 3
                                                                                                                                                                                                                                                                                                                                                                 Itazaki K., Shigeri Y., Fujimoto M.;

"Molecular cloning and characterization of the angiotensin receptor subtype in porcine aortic smooth muscle.";

Eur. J. Pharmacol. 245:147-156(1993).
-1- FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES ITS ACTION BY ASSOCIATION WITH G PROTEINS THAT ACTIVATE A PHOSPHATIDYLINOSITOL-CALCIUM SECOND MESSENGER SYSTEM.
-1- SUBCELLULAR LOCATION: Integral membrane protein.
-1- SUBCELLULAR LOCATION: TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
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prints; PR00237; GPCRRHODOPSN.
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PROSITE: PS50262: G_PROTEIN_RECEP_F1_2; 1.
G-protein coupled receptor: Transmembrane;
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TISSUE-Aortic smooth muscle;
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Mammalia; Eutheria;
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P57432;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Genome sequence of the Buchnera sp. APS."; Nature 407:81-86(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=20445173; PubMed=10993077;
Shigenobu S., Watanabe H., Hattori M., Sakaki Y.,
"Genome sequence of the endocellular bacterial syn
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FABG OR BU351
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16-OCT-2001 (Rel. 40, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
3-oxoacyl-[acyl-carrier protein] reductase (EC 1.1.1.100) (3-ketoacyl-
                                                                                                                                                                                                                                                                                                                                                                                  entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -i- CATALYTIC ACTIVITY: (3R)-3-hydroxyacyl-[acyl-carrier NADP(+) = 3-oxoacyl-[acyl-carrier protein] + NADPH.
-i- PATHWAY: FIRST REDUCTION STEP IN THE FATTY ACID BIOSY
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Bacteria; Proteobacteria;
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                                                                                                                                                                                                Fatty acid biosynthesis; Oxidoreductase; NADP; Complete
NP_BIND 10 34 NADP (BY SIMILARITY).
                                                                                                                                                                                                                                          PRINTS; PR00080; SDRFAMILY.
PROSITE; PS00061; ADH_SHORT; 1.
                                                                                                                                                                                                                                                                                    Pfam; PF00106; adh_short;
                                                                                                                                                                                                                                                                                                                         EMBL; AP001119; BAB13055.1; HSSP; P25529; 1FMC.
                                                                                                                                                                                                                                                                                                                                                                                                                          use by non-profit institumodified and this statement
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the European Bioinformatics Institute.
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                                                                                                                                                                                                                                                                                                    InterPro; IPR002198; ADH_short.
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1027521; Q9XYB9;

207521; Q9XYB9;

10-CCT-2000 (Rel. 39, Created)

11-CCT-2001 (Rel. 40, Last sequence update)

11-CCT-2001 (Rel. 40, Last annotation update)

12-CCT-2001 (Rel. 40, Last annotation update)

13-CCT-2001 (Rel. 40, Last annotation update)

14-CCT-2001 (Rel. 40, Last annotation update)

15-CCT-2001 (Rel. 40, Last annotation update)

16-CCT-2001 (Rel. 40, Last sequence in the seque
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Matches
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InterPro; IPR000536; Hormone_rec_lig.
InterPro; IPR001628; Znf_C4steroid.
Pfam; PF00104; hormone_rec; 1.
Pfam; PF00105; zf-C4; 1.
Pfam; PF00105; zf-C4; 1.
Pfam; PF00047; STROIDFINGER.
PRINTS; PR00047; STROIDFINGER.
PRINTS; PR000430; HOLL; 1.
SMART; SM00430; Znf_C4; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Waterston R.;
Submitted (JUN-2001) to the EMBL/GenBank/DDBJ databases.
Submitted (JUN-2001) to the EMBL/GenBank/DDBJ databases.
-i- FUNCTION: ORPHAN NUCLEAR RECEPTOR.
-i- SUBCELLULAR LOCATION: Nuclear (Potential).
-i- SIMILARITY: BELONGS TO THE NUCLEAR HORMONE RECEPTOR FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                        Receptor; Transcription regulation; DNA-binding; Nuclear protein; Zinc-finger.
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                                                  Human angiotensin
Human G protein co
Protein of the ang
Human Angiotensin
                                                                                                                                                                                                                                                                                                                    Description
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		entry)	C-1995 (first	01-DEC-1995
			230;	AAR72230
	10 AA.	Peptide;	230 standard;	SULT 1 R72230 AAR72230
	ALIGNMENTS			
Human protein sequ Prostate cancer-as Novel human secret	AAM25602 ABG61824 AAU32407	1193 23 1193 23 1194 22	35 67.3 35 67.3	444
Malarial PfEMP3 ep Human colon cancer			67.	412
י להיר	AAU35325 AAU59444 AAB53423		67. 67.	4 3 8 4 0 8 0
Human protein SEQ Human protein SEQ Enterococcus faeca	AAM79921 AAM78937 AAU33430		69. 67.	36 37
Drosophila melanog Putative P. abyssi Drosophila melanog	ABB65401 AAB96333 ABB70714		0000	ωωω αω41
Streptococcus equi C glutamicum prote Corynebacterium gl Mouse Friend virus	AAY06206 AAG92608 AAB80084 AAW26782		5 5 5 5 5 9 .	31 31
Arabidopsis thalia Corynebacterium gl Listeria monocytog Propionibacterium	AAG47973 AAB80086 ABB47463 AAU47623		5555 5666	24 25 26 27
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Epitope of rat vascular smooth muscle AT1 receptor (residues 8-17).

W09509186-A. Monoclonal antibody; AT1 receptor; subtype; Angiotenisin II receptor; rat vascular smooth muscle; conserved; mammalian AT1 receptor; detection; cancer diagnosis; sperm motility; contraception. 06-APR-1995 Synthetic. 27-SEP-1994; 94WO-GB02100

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(QUEE-) QUEEN MARY & WESTFIELD COLLEGE

27-SEP-1993;

93GB-0019877.

Ś Vinson GP;

WPI; 1995-147395/19.

Monoclonal antibody to ATI angiotensin receptor - detection and control of uterine contractions and vasoconstriction e.g. for treating hypertension $\frac{1}{2}$ used for

Human Human

Angiotensin Angiotensin

밁 Qy

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RESULT 2
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ID AAR4
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21-APR-1992;
17-FEB-1993;
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Protein
                                                                                                         Human Ang II type 1 receptor is useful for determining the bioactivity of angiotensin II type 1 receptor antagonists which are useful for treating hypertension. The Ang II type 1 receptor gene was derived from human placenta and is contained in plasmid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Monoclonal antibodies (MAbs) that bind to the ATI receptor (a subtype of Angiotenisin II receptor) are claimed. The Abs specifically bind to amino acid residues 8 to 17 of the rat vascular smooth muscle ATI receptor. This sequence is conserved in all mammalian ATI receptors so far cloned. The Mabs can be used for detection of ATI receptors, e.g. in cancer diagnosis. They can also be used to study and measure sperm motility and can be used in
                                              Sequence
                                                                                         PHARP116.
                                                                                                                                                                                                                                Claim
                                                                                                                                                                                                                                                                           activity
                                                                                                                                                                                                                                                                                             Human angiotensin II type 1 receptor polypeptide - useful f
determining human angiotensin II type 1 receptor antagonist
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llarity 100.0%;
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92JP-0101393.
93JP-0027835.
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RESULT 3
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03-SEP-1999;
29-SEP-1999;
29-SEP-1999;
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26-FEB-1999,
12-MAR-1999,
12-MAR-1999,
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12-MAR-1999,
12-MAR-1999,
12-MAR-1999,
The present invention describes transmembrane receptors, preferably human G protein coupled receptors (GPCR), for which the endogenous ligand is unknown (orphan GPCR receptors). More specifically the publication relates to non-endogenous, constitutively activated version a human GPCR. These non-endogenous human GPCRs can be useful for
                                                                                                                                                                                                                         Gore
                                                                                                                           Non-endogenous, human G protein-coupled receptors for screening receptor, inverse or partial agonists useful as therapeutic ages
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27-NOV-1998;
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99US-0123951.
99US-0136436.
99US-0136437.
99US-0137137.
99US-0137137.
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99US-0141444.
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Lowitz K, White C;
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RESULT 4
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16-FEB-1999
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Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      the direct identification of candidate compounds as receptors agonists, inverse agonists or partial agonists for use as pharmaceutical agents. AAA46017 to AAA46126 and AAB02825 to AAB02859 represent sequences used the exemplification of the present invention.
                   N-PSDB;
                                               Gore
                                                                                                                                                                                                                                                                                                                                                           20-APR-2000
                                                                                                                                                                                                                                                                                                                                                                              WO200022131-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; G protein coupled receptor; GPCR; transmembrane receptor; identification; agonist; screening; therapeutic; pharmaceutical;
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Non-endogenous, human G protein-coupled receptors for screening
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                                                                           (AREN-) ARENA PHARM INC.
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                                                      Lehmann-Bruinsma
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                                                                                            99US-0136439
99US-0137127
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99US-0151114
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                                               Lowitz K, White
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                                               C
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RESULT 5
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Best Local S
Matches 10
                  28-MAY-1999
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30-JUN-1999
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03-SEP-1999
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                                                                                                                                              26-FEB-1999
12-MAR-1999
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12-MAR-1999
12-MAR-1999
12-MAR-1999
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27-NOV-1998;
16-FEB-1999;
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                                                                                                                                                                                                                                                                                                                                                                       Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                         mutant.
                                                                                                                                                                                                                                                                                                                                                                                                                   Human; G protein coupled receptor; GPCR; transmembrane receptor;
identification; agonist; screening; therapeutic; pharmaceutical;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human G protein coupled receptor hAT1 mutant protein SEQ ID NO:94
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22-AUG-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        receptor, inverse or partial agonists useful as therapeutic agents
                                                                                                                                                                                                                                                               13-OCT-1998;
12-NOV-1998;
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                                                                                                                                                                                                                                                                                                                         20-APR-2000
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                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens.
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10; Conser
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                                                                                                                       990S-0123945.
990S-0123946.
990S-0123948.
990S-0123949.
990S-0123951.
990S-0136436.
990S-0136437.
                                         990S-0136439.
990S-0137127.
990S-0137131.
990S-01377567.
990S-0141448.
990S-0151114.
990S-0152524.
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98US-0108029.
98US-0109213.
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99US-0120416
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Pred. No. 0.1
0; Mismatches
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26-FEB-1999
112-MAR-1999
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112-MAR-1999
12-MAR-1999
28-MAY-1999
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28-MAY-1999
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12-NOV-1998;
20-NOV-1998;
27-NOV-1998;
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Synthetic.
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                                                                                                                                                                                                                                                                                                                                                                     WO200022131-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; G protein coupled identification; agonist;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22-AUG-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Non-endogenous, human G protein-coupled receptors receptor, inverse or partial agonists useful as the
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10; Conserv
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Liaw CW, Lin I, 1
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990S-0123945.
990S-0123948.
990S-0123949.
990S-0123951.
990S-0136436.
990S-0136437.
990S-0136439.
990S-0136439.
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99US-0123944.
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98US-0109213.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    receptor; GPCR; transmembrane receptor;
screening; therapeutic; pharmaceutical;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A K, Chalmers DT,
Lowitz K, White C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 359 AA
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Pred. No. 0.13;
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therapeutic age
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AAO20951
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Best Local (
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28-MAY-1999;
30-JUN-1999;
27-AUG-1999;
03-SEP-1999;
29-SEP-1999;
29-SEP-1999;
29-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The present invention describes transmembrane receptors, preferably human G protein coupled receptors (GPCR), for which the endogenous ligand is unknown (orphan GPCR receptors). More specifically the present invention relates to non-endogenous, constitutively activated versions of a human GPCR. These non-endogenous human GPCRs can be useful for the direct identification of candidate compounds as receptors agonists, inverse agonists or partial agonists for use as pharmaceutical agents. AAA46017 to AAA46126 and AAB02825 to AAB02899 represent sequences used the exemplification of the present invention.
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                                                                                                                                                                                                                                                                                              Cardiovascular; vasotropic; angiotensin II; aortic valve disease; angiotensin converting enzyme; aortic valve; aortic stenosis; ACE inhibiting agent; angiotensin II type 1 receptor antagonist;
   WPI; 2002-372197/40
                                    O'Brien
                                                                                                                                                                                                                                                                                                                                                                     Protein of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAO20951 standard; Protein;
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                                                                    (UNIW ) UNIV
                                                                                                                                         05-OCT-2001;
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                                                                                                                                                                                                                                              Homo sapiens.
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                                                                                                                                                                                                                                                                                sclerosis;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  359 AA;
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                                                                      WASHINGTON
                                                                                                                                         2001WO-US31605
                                    Otto CM,
                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                        2000US-238367P
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99US-0137567.
99US-0141448.
99US-0151114.
99US-0156533.
99US-0156555.
99US-0156634.
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                                                                                                                                                                                                                                                                              angiotensin II
AT-1.
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Lowitz K, White C;
                                                                                                                                                                                                                                                                                                                                                                   II type 1 (AT-1) receptor
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Pred. No. 0.13;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a method for decreasing the amount and/or biological activity of angiotensin II in an aortic valve in an animal. This method comprises administering an angiotensin II inhibiting agent consisting of angiotensin converting enzyme (ACE) antagonists and angiotensin II type 1 receptor antagonists. The method is also useful to prevent progression and/or complications of aortic valve disease, such as aortic stenosis or aortic sclerosis. This sequence represents the protein of the angiotensin II type 1 (AT-1) receptor of the invention.
            The invention relates to an isolated polynucleotide comprising a first nucleotide sequence which comprises a angiotensin receptor 1 (AGTR1) isogene selected from isogenes 1-8 anglotyne in the specification. Also included are methods of haplotyping/genotyping the AGTR1 gene of an individual, predicting a haplotype pair of an individual, identifying an association between a trait and at least one haplotype
                                                                                                                          Claim 30;
                                                                                                                                                  Novel genetic variants of Angiotensin Receptor 1 isogenes, useful for improving efficiency and reliability in drug development for treating diseases associated with AGTR1 activity, e.g. hypertension -
                                                                                                                                                                                                                                                                                                                                                                                                      06-MAR-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; angiotensin; receptor; AGTR1; hypotensive; hypertension;
chromosome 3q21-q25; haplotype; genotype; drug screening.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAU78654 standard; Protein; 359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Page 36-37; 40pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                angiotensin II type 1 receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Decreasing the amount and/or biological activity of angiotensin II in an aortic valve comprises administering angiotensin II inhibiting age consisting of antagonists of angiotensin converting enzyme and the
                                                                                                                                                                                                                                                               Anastasio
                                                                                                                                                                                                                                                                                                                          28-AUG-2000;
30-MAY-2001;
                                                                                                                                                                                                                                                                                                                                                                      12-JUN-2001; 2001EP-0114230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human Angiotensin receptor 1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-JUN-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N-PSDB; AAK99740.
   haplotype pair of
                                                                                                                                                                                                                                                                                            (GENA-) GENAISSANCE PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
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                                                                                                                                                                                                               2002-282840/33.
DB; ABK47350, AF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EDGIKRIQDD 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10;
                                                                                                                       Fig
                                                                                                                                                                                                                                                               ΑE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    359 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                          2000US-228542P
2001US-0867915
                                                                                                                       3; 44pp; English.
                                                                                                                                                                                                                                                            Koshy B,
AGTR1 gene, oligonucleotides and primers for
                                                                                                                                                                                                                 ABK47351.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%;
                                                                                                                                                                                                                                                              Finkel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 52; D
Pred. No. 0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AGTR1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                              Lee
                                                                                                                                                                                                                                                              HH;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .13;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        359;
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RESULT 9
AAU78655
HORSE STATES OF 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CC an anti-AGTRI protein monoclonal antibody, a computer system for control and analysing polymorphism data for the AGTRI gene and can appear antible of the AGTRI gene and computer system for control and antible of the AGTRI gene and computer system for control and antible of the AGTRI gene and computer system for treating the perfect of treating for treating the methods are useful for several steps in the discovery and development of drugs for treating compounds targeting AGTRI. The antibody is useful in control of the protein for use in screening AGTRI. The antibody is useful in the tudying the expression and function of AGTRI, and in expressing AGTRI in studying the expression and function of AGTRI, and in expressing AGTRI contained to AGTRI activity. The AGTRI gene is also useful in studying the effect of the variation on the biological activity of AGTRI as well as on the binding affinity of candidate drugs targeting AGTRI for the treatment contained targeted against AGTRI protein, and for testing the efficacy of drugs targeted against AGTRI protein, and for testing the efficacy of biological system. The gene for AGTRI is located on chromosome contained the momentum of the protein someone is the AGTRI protein accompance.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
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                                                                                                                                                                                                                                                                                28-AUG-2000;
30-MAY-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAU78655;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          detecting polymorphisms in the AGTR1 gene, organism transformed or transfected with an
                                                                                                           WPI; 2002-282840/33
                                                                                                                                                                    Anastasio AE,
                                                                                                                                                                                                                                                                                                                                                                    12-JUN-2001; 2001EP-0114230
                                                                                                                                                                                                                                                                                                                                                                                                                             06-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EP1184456-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human Angiotensin receptor 1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                          (GENA-) GENAISSANCE PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      œ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3q21-q25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%; ilarity 100.0%; Conservative
                                                                                                                                                                                                                                                                             2000US-228542P.
2001US-0867915.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   present sequence is the AGTR1 protein sequence
                                                                                                                                                              Koshy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers 204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            receptor; AGTR1; hypotensive; hypertension;
                                                                                                                                                                    В,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    haplotype;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Wild-type Phe substituted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   359 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 52;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGTR1,
                                                                                                                                                                 ~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    genotype;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        variant #1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.13;
                                                                                                                                                                    H
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    drug screening.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a recombinant non-human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 359;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         γd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0,
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Novel genetic variants of Angiotensin Receptor 1 isogenes, improving efficiency and reliability in drug development for diseases associated with AGTR1 activity, e.g. hypertension

for useful

treating

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RESULT 10
AAU78656
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Corganism expresses a AGTRI protein encoded by the AGTRI gene or the CC polymorphic variant sequence, the polymorphic variant proteins of AGTRI, consistent anti-AGTRI protein monoclonal antibody, a computer system for CC storing and analysing polymorphism data for the AGTRI gene and CC a genome anthology for AGTRI gene. The polypeptide is useful in screening CC methods are useful for improving the efficiency and reliability of CC several steps in the discovery and development of drugs for treating diseases associated with AGTRI activity. The methods are also useful for constant for use in screening activity, The antibody is useful in Studying the expression and function of AGTRI, and in expressing AGTRI contains for use in screening for candidate drugs to treat diseases correlated to AGTRI activity. The AGTRI gene is also useful in studying the expression and function of AGTRI, and in expressing AGTRI contains a finity of candidate drugs to treat diseases correlated to AGTRI activity. The AGTRI gene is also useful in studying the effect of the variation on the biological activity of AGTRI as well as on the binding affinity of candidate drugs targeting AGTRI for the treatment constitution of AGTRI isogenes in vivo, for in vivo screening and testing of drugs targeted against AGTRI protein, and for testing the efficacy of therapeutic agents and compounds for treating hypertension in a drug targeted against AGTRI protein, and for testing the efficacy of therapeutic agents and compounds for treating hypertension in a drug targeted by the indexer using the AGTRI sequence appearing as CC adu78054 and the information in figure 3.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      identifying an association between a trait and at least one haplotype haplotype pair of AGTR1 gene, oligonucleotides and primers for detecting polymorphisms in the AGTR1 gene, a recombinant non-human
12-JUN-2001; 2001EP-0114230
                                       06-MAR-2002
                                                                              EP1184456-A2
                                                                                                                                       Misc-difference
                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                      Human; angiotensin;
chromosome 3q21-q25;
                                                                                                                                                                                                                                                                                                  Human Angiotensin receptor 1,
                                                                                                                                                                                                                                                                                                                                          18-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                 AAU78656
                                                                                                                                                                                                                                                                                                                                                                                                                       AAU78656 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       organism transformed or transfected with an AGTR1 gene, where the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 EDGIKRIQDD 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Page -; 44pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ŗ
                                                                                                                                         Location/Qualifiers 336
                                                                                                                  /note= "Wild-type Thr substituted by Met'
                                                                                                                                                                                                                                                           receptor; AGTR1; hypotensive; hypertension;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%; S
100.0%; F
tive 0;
                                                                                                                                                                                                                                    haplotype; genotype;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   an isolated polynucleotide comprising a first
                                                                                                                                                                                                                                                                                                  AGTR1, variant #2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 52; DB 2
Pred. No. 0.13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 23; Length 359;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                        screening
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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XXX DXXXX

22-AUG-2000

(first entry)

AAB02851 standard; Protein; 360

0

Human G protein coupled receptor hAT1 mutant protein SEQ ID NO:106.

protein coupled receptor; GPCR; transmembrane receptor;

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RESULT 11
AAB02851
                                                                                                                                                                                                                                                      B
                                                                                                                                                                                                                                                                                                                                                                   CC organism transformed or transfected with an AGTR1 gene, where the corganism expresses a AGTR1 protein encoded by the AGTR1 gene or the copolymorphic variant sequence, the polymorphic variant proteins of AGTR1, an anti-AGTR1 protein monoclonal antibody, a computer system for companies and analysing polymorphism data for the AGTR1 gene and companies antibody for AGTR1 gene. The polypeptide is useful in screening compounds are useful for improving the efficiency and reliability of contrast steps in the discovery and development of drugs for treating several steps in the discovery and development of drugs for treating compounds targeting AGTR1. The antibody is useful in contrastic, prognostic and therapeutic methods. The AGTR1 gene is useful for in studying the expression and function of AGTR1, and in expressing AGTR1 candidate drugs to treat diseases content to the variation on the biological activity of AGTR1 as well as on the binding affinity of candidate drugs targeting AGTR1 as well as on the binding affinity of candidate drugs targeting AGTR1 for the treatment cof hypertension. The recombinant organism is useful for studying the compounds for treating hypertension in a conjugical system. The gene for AGTR1 variant protein sequence.
                                                                                                                                                                     Matches
                                                                                                                                                                                       Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Also included are methods of haplotyping/genotyping the AGTR1 gene of an individual, predicting a haplotype pair of an individual, predicting a haplotype pair of an individual, identifying an association between a trait and at least one haplotype or haplotype pair of AGTR1 gene, oligonucleotides and primers for detecting polymorphisms in the AGTR1 gene, a recombinant non-human
                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                           3q21-q25. The present sequence is AGTR1 variant protein sequence. Note: The present sequence is not shown in the specification but was created by the indexer using the AGTR1 sequence appearing as AAU78654 and the information in figure 3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              nucleotide sequence which comprises a angiotensin receptor 1 (AGTR1) isogene selected from isogenes 1-8 and 10 given in the specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to an isolated polynucleotide comprising
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 30; Page -; 44pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel genetic variants of Angiotensin Receptor 1 isogenes, improving efficiency and reliability in drug development for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Anastasio AE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28-AUG-2000;
30-MAY-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (GENA-) GENAISSANCE PHARM INC
                                                                                                                                                                                       Local Similarity
                                                                                    8 EDGIKRIQDD 17
                                                                                                                            1 EDGIKRIQDD 10
                                                                                                                                                                     10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        associated with AGTR1 activity, e.g. hypertension
                                                                                                                                                                                                                                                    359 AA;
                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000US-228542P.
2001US-0867915.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Koshy B,
                                                                                                                                                                                       100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Finkel K,
                                                                                                                                                                     0;
                                                                                                                                                                                    Score 52; I
Pred. No. 0
                                                                                                                                                                     Mismatches
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RESULT 12
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12-MAR-1999
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                                                                                                                                                                                                                                The present invention describes transmembrane receptors, preferably human G protein coupled receptors (GPCR), for which the endogenous ligand is unknown (orphan GPCR receptors). More specifically the present invention relates to non-endogenous, constitutively activated versions of a human GPCR. These non-endogenous human GPCRs can be useful for the direct identification of candidate compounds as receptors agonists, inverse agonists or partial agonists for use as pharmaceutical agents. AAA46017 to AAA46126 and AAB02825 to AAB02859 represent sequences used in the exemplification of the present invention.
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Gore N
                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                  Example
                                                                                                                                                                                                                                                                                                                                                                                                                               Non-endogenous, human G protein-coupled receptors for screening receptor, inverse or partial agonists useful as therapeutic agents
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RESULT 13
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Arabidopsis thaliana protein fragment SEQ ID NO: 14193
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Similarity 80.0%;
8; Conservative
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Identification; signal transduction pathway; metabolic pathway; alon assay; genetic mapping; gene expression control; promoter; Lon asquence. sis thaliana. 5-A2. sis thaliana. 5-A3. 2000gr-0301439 2000 2000gr-0301
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RESULT 14
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                                      Protein identification; signal transduction pathway; metabolic hybridisation assay; genetic mapping; gene expression control; termination sequence.
              Arabidopsis thaliana
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RESULT 15
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25-FEB-1999;
                      25-FEB-2000; 2000EP-0301439.
                                              06-SEP-2000.
                                                                       EP1033405-A2.
                                                                                             Arabidopsis thaliana
                                                                                                                                                                Arabidopsis thaliana protein fragment SEQ ID NO:
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Result

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ALIGNMENTS

US/08624374

Minimum Maximum

DB

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Scoring table: Sequence: Perfect score: Title:

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MEDIUM TYPE: Storable
COMPUTER: Compaq Prolinea 5100e
operating SYSTEM: DOS 6.2/Windows 3.1
SOFTWARE: Word Perfect 5.1

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APPLICATION NUMBER: US/08/624,374
FILING DATE: March 27, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB94/02100
FILING DATE: 27-SEPT-1994
APPLICATION NUMBER: GB 9319877.8
FILING DATE: 27-SEPT-1993
APPLICATION NUMBER: BKY 2040
REFERENCE/DOCKET NUMBER: BKY 2040
TELECOMMUNICATION INFORMATION:
REGISTRATION NUMBER: BKY 2040
TELECOMMUNICATION INFORMATION:
TELEDRONEY. 216) R671-5582
                                                                                                                                                                                                                                                                       TELEPHONE: (216) 861-5582
TELEFAX: (216) 241-1666
TELEX: (216) 980162
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
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TYPE: a
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US-08-458-970A-11

Patent No. 5861272
GENERAL INFORMATION:
APPLICANT: LI, ET

11, A.E. 127.

Application US/08458970A

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FILING DATE: 16 AUG 1994
ATTORNEY/AGENT INFORMATION:
NAME: MULLINS, J.G.
REGISTRATION NUMBER: 325800-353
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
OPERATING SYSTEM: MS-DOS
SOFTWARE: WORD PERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/45
FILING DATE: June 2, 1995
                                                                                                                                                                                                                                  GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                APPLICANT: FUJISAWA, Yukio
APPLICANT: KURODA, Shun'ichi
APPLICANT: KONISHI, Hiroaki
TITLE OF INVENTION: ANGIOTENS
TITLE OF INVENTION: PRODUCTIO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIP: 07068
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 INC
                                                                                CORRESPONDENCE ADDRESS:
ADDRESSEE: WEGNER, CANTOR, MUELLER & PLAYER
STREET: 1233 20th Street, N.W., Suite 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET: 0 CITY: ROSELAND
CITY: NEW JERSEY
STATE: NEW JERSEY
COMPUTER READABLE FORM:
                                                                                                                                 NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CLASSIFICATION: 536 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: LI, ET AL.
TITLE OF INVENTION: C5a Receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TELEPHONE: 201-994-1744
                               COUNTRY:
                                               CITY: Washington STATE: D.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRANDEDNESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN, ADDRESSEE: CECCHI, STEWART & OLSTEIN
                                                                                                                                                                                                                                                                                                                                                           7
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                                                                                                                                                                                                                                                                                                                                                                                        1 EDGIKRIQDD 10
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20036
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         amino acid
                                                                                                                                                                                                                                                                     Application US/08041219A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6 BECKER FARM ROAD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       358 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear
                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%;
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                                                                                                                                                    PRODUCTION
                                                                                                                                                                ANGIOTENSIN II TYPE-1 RECEPTOR AND ITS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US/08/458,970A
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 10; DB 2;
Pred. No. 0.00056;
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   INFORMATION FOR SEQ ID NO: 6: SEQUENCE CHARACTERISTICS: LENGTH: 359 amino acids
TYPE: amino acid
                                                     ZIP: 94111 TO COMPUTER READABLE FORM:
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIN Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
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TOPOLOGY: line
MOLECULE TYPE: p
ORIGINAL SOURCE:
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Rowland, Bertram I
                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Dzau, Victor J
APPLICANT: Mukoyama, Masashi
TITLE OF INVENTION: TYPE-2 ANGIOTENSIN II RECEPTOR AND GENE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS
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REFERENCE/DOCKET NUMBER: P-8700-23781
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-0400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 17-FEB-1993 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 1
FILING DATE: 21-APR-1992
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APPLICATION NUMBER: JP 085445-1992
FILING DATE: 07-APR-1992
                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                       STREET: 4 Embarcade
CITY: San Francisco
STATE: California
                                                                                                                                                                                                                 COUNTRY: USA
ZIP: 94111-4187
                                                                                                                                                                                                                                                                                                              ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
les 10; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TISSUE TYPE: Placental
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: (202) 835-0605
TELEX: 440706
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Mueller, Douglas P. REGISTRATION NUMBER: 30,3
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COMPUTER: II
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    , Application US/08148209A 5556780
                                                                                                                                                                                                                                                     California
                                                                                                                                                                                                                                                                                        E: FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT 4 Embarcadero Center, Suite 3400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ະຣຣ: single
linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%; Score 10; DB 1; llarity 100.0%; Pred. No. 0.00057; Conservative 0; Mismatches 0;
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Best Local S
Matches 10
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                                                                                                                                                                                                                                                                            CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/041,219
FILING DATE: 31-MAR-1993
APPLICATION NUMBER: JF 085445-1992
FILING DATE: 07-APR-1992
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: EUJISAWA, tun-
APPLICANT: KURODA, Shun'ichi
APPLICANT: KONISHI, Hiroaki
APPLICANT: KONISHI, Hiroaki
APPLICANT: NOTINIENTION: ANGIOTENSIN II TYPE-1 RECEPTOR AND ITS
                                    NFORMATION FOR SEQ ID NO:
                                                                              NAME: Mueller, Douglas P.
REGISTRATION NUMBER: 30,300
REFERENCE/DOCKET NUMBER: P-8700-23781
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-0400
                    SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                            APPLICATION NUMBER: JP 101393-1992 FILING DATE: 21-APR-1992 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/417,122
FILING DATE: 05-APR-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
                                                                                                                                                                    FILING DATE: 17-FEB-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC
OPERATING SYSTEM:
                                                                                                                                                                                           APPLICATION NUMBER: JP 02
FILING DATE: 17-FEB-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: Washington STATE: D.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: amino a
                                                                       TELEFAX:
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mes 10; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  E: WEGNER, CANTOR, MUELLER & PLAYER 1233 20th Street, N.W., Suite 300
359 amino acids
                                                                       (202) 835-0605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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Pred. No. 0.00057;
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TOPOLOGY: linear

MOLECULE TYPE: protein

ORIGINAL SOURCE:

ORGANISM: Homo sapiens

TISSUE TYPE: Placental

US-08-417-122-6
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В
                                                                                                                                 US-08-934-222-104
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                                                                               Query Match
Best Local
                                                               Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local :
                                                                                                                                                                                            NAME: ISACSON, JOHN P.
REGISTRATION NUMBER: 33,751
REFERENCE/DOCKET NUMBER: 04
INFORMATION FOR SEQ ID NO: 104:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                              APPLICATION NUMBER: U.S. 08/143,364
FILING DATE: 29-OCT-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S. 08/051,741
FILING DATE: 23-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: ISACSON, John P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 20007
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 08/5: FILING DATE: 03-MAY-1996 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICATION NUMBER: FILING DATE: 19-SEPT PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: EVANS, Herbert J.
APPLICANT: KINI, R. Manjunatha
TITLE OF INVENTION: Polypeptides That Include Conformation-
TITLE OF INVENTION: Constraining Groups Which Flank A Protein-Protein Interacti
TITLE OF INVENTION: Site
                                                               Local Similarity nes 7; Conserv
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STRANDEDNESS: si
                                                                                                                                               TOPOLOGY:
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les 10; Conserv
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Suite 500, 3000 K Street NW
                                                                                                                                                                              13 amino acids
                                                               Conservative
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                                                                                                                                            linear
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                                                                             70.0%; Score 7; I
100.0%; Pred. No.
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Pred. No. 0.00057;
                                                               Mismatches
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                                                                             DB 2;
o. 0.059;
                                                                                           Length 13;
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                                                                                                                                                                                                                                             Sequence 104, Application US/09207621 Patent No. 5952465
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Best Local Similarity 100.0%; Pred. No.
Matches 7; Conservative 0; Mismatch
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                                                                                                                                                                                                                            GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO: 104:
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                                                                                                     APPLICANT: EVANS, Herbert J.
APPLICANT: KINI, R. Manjunatha
TITLE OF INVENTION: Polypeptides That Include Conformation-
TITLE OF INVENTION: Constraining Groups Which Flank A Prote
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TITLE OF INVENTION: Polypeptides That Include Conformation-
TITLE OF INVENTION: Constraining Groups Which Flank A Protein-Protein Interaction
TITLE OF INVENTION: Site
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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LENGTH: 13 amino acids
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S. 08/051,741
FILING DATE: 23-APR-1993
COMPUTER READABLE FORM:
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ATTORNEY/AGENT INFORMATION:
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APPLICATION NUMBER: U
FILING DATE: 29-OCT-
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APPLICATION NUMBER:
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                                COUNTRY:
                                                  STATE:
                                                               CITY: Washington
                                                                                   STREET:
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CITY: Washington
                                                                                                   ADDRESSEE:
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Suite 500, 3000 K Street NW
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Suite 500, 3000 K Street NW
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RESULT 9
US-08-532-818-104
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Best Local Similarity
Thes 7; Conserve
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PRIOR APPLICATION NUMBER: U.S. 08/051,741
APPLICATION NUMBER: U.S. 08/051,741
APPLICATION NUMBER: 23-APR-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                MEDIUM TYPE: Floppy disk
COMMUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/08/532,818 FILING DATE: 03-MAY-1996 PRIOR APPLICATION DATA:
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APPLICANT: KINI, R. Manjunat
TITLE OF INVENTION: Polypept
TITLE OF INVENTION: Constrai
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/207,621
                                                                                                                                                                            FILING DATE: 21-APR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S.
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CORRESPONDENCE ADDRESS:
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ATTORNEY/AGENT INFORMATION:
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FILING DATE: 03-MAY-1996
APPLICATION NUMBER: PCT/I
FILING DATE: 21-APR-1994
PRIOR APPLICATION DATA:
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FILING DATE: 29-OCT-193
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S. 08/051,741
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ZIP: 20007
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CITY: Washington
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Suite 500, 3000 K Street NW
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23-APR-1993
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N: Polypeptides That Include Conformation-
N: Constraining Groups Which Flank A Prote
N: Site
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100.0%; Pred. No.
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US-09-231-797-104
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Best Local
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                                                                              Query Match
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INFORMATION FOR SEQ ID NO: 104:
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LENGTH: 13 amino acids
TYPE: amino acid
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PRIOR APPLICATION NUMBER: 08/5:
APPLICATION NUMBER: 08/5:
FILING DATE: 03-MAY-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
COMPUTER: IBM PC com
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APPLICANT: KINI, R. Manjunatha
                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                        APPLICATION NUMBER: U.S. 08/051,741 FILING DATE: 23-APR-1993 ATTORNEY/AGENT INFORMATION:
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APPLICATION NUMBER: U.S. 08/143,364
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TITLE OF INVENTION: Constraining Groups Which Flank A Prote
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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CITY: Washington
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les 7; Conservative
                                                                                                                                                                                                                                      NAME: Isacson, John P. REGISTRATION NUMBER: 33,751
                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: PCT/
FILING DATE: 21-APR-1994
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REGISTRATION NUMBER: 33,751
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                                                                  Local
                                                                                                                                                                    LENGTH:
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                 4 IKRIQDD 10
                                                Similarity 7; Conserv
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Suite 500, 3000 K Street NW
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                                                  Conservative
                                                                                                                                     linear
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100.0%; Pred. No. 0.059;
tive 0; Mismatches
                                                70.0%; Score 7; 1
100.0%; Pred. No.
Live 0; Mismatc
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                                                  Mismatches
                                                                DB 3;
o. 0.059;
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                                                                                                                                Sequence 104, Application US/08933843 Patent No. 6111069 GENERAL INFORMATION:
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GENERAL INFORMATION:
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Best Local S
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TITLE OF INVENTION:
TITLE OF INVENTION:
                                            APPLICANT: EVANS, Herbert J.
APPLICANT: KINI, R. Manjunatha
TITLE OF INVENTION: Polypeptides That Include Conformation-
TITLE OF INVENTION: Constraining Groups Which Flank A Protein Protein Interacti
TITLE OF INVENTION: Site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
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SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: U.S. FILING DATE: 29-OCT-1993 PRIOR APPLICATION DATA:
              NUMBER OF SEQUENCES: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: EVANS, Herbert J. APPLICANT: KINI, R. Manjunat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity nes 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CITY: Washington STATE: DC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: Isacson, John P.
REGISTRATION NUMBER: 33,751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: U.S. FILING DATE: 23-APR-1993
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GY: linear
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Suite 500, 3000 K Street NW
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Foley & Lardner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 03-MAY-1996
UMBER: PCT/US94/04294
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      R. Manjunatha
                                Site
153
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Constraining Groups Which
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Flank A Protein-Protein Interacti
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Suite 500, 3000 K Street NW

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Best Local (
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GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                         APPLICANT: EVANS, Herbert ...
APPLICANT: KINI, R. Manjunatha
APPLICANT: KINI, R. Manjunatha
TITLE OF INVENTION: Polypeptides That Include Conformation-
TITLE OF INVENTION: Constraining Groups Which Flank A Protein-Protein Interaction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
                                                                                                    COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTMARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,223
                           PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/532,818
FILING DATE: 03-MAY-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S.
FILING DATE: 23-APR-1993
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 19-SEPT-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/532,818
FILING DATE: 03-MAY-1996
PRIOR APPLICATION NUMBER: U.S. 08/143,364
FILING DATE: 29-OCT-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: PatentIn Release #1.0, Version CURRENT APPLICATION DATA:
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ZIP: 20007
                                                                                                                                                                                                                                                                      STATE:
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                                                                                         FILING DATE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OPERATING SYSTEM: PC-DOS/MS-DOS
FILING
                  APPLICATION NUMBER:
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o. 6147189
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IBM PC compatible
21-APR-1994
                PCT/US94/04294
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o. 0.059;
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US-09-413-492-104
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Best Local :
                                                                                     REFERENCE/DOCKET NUMBER: 04
INFORMATION FOR SEQ ID NO: 104:
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INFORMATION FOR SEQ ID NO: 104:
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FILING DATE: 29-0C7-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S.
FILING DATE: 23-APR-1993
                                                                                                                   FILING DATE: 23-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: ISACSON, John P.
REGISTRATION NUMBER: 33,751
                                                                                                                                                                                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S.
FILING DATE: 29-OCT-1993
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ZIP: 20007
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                             FILING DATE: PRIOR APPLICATION DATA:
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APPLICANT: KINI, R. Manjunatha
TITLE OF INVENTION: Polypeptides That Include Conformation-
TITLE OF INVENTION: Constraining Groups Which Flank A Protein-Protein Interacti
TITLE OF INVENTION: Site
NUMBER OF SEQUENCES: 153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
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NAME: Isacson, John P.
REGISTRATION NUMBER: 33,
                                                                  SEQUENCE CHARACTERISTICS:
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FILING DATE: 03-MAY-1996
APPLICATION NUMBER: PCT/I
FILING DATE: 21-APR-1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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nes 7; Conserv
               TOPOLOGY:
                                                 LENGTH:
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Suite 500, 3000 K Street NW
                                                 13 amino acids
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100.0%; Pro
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Pred. No.
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o. 0.059;
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GENERAL INFORMATION:
APPLICANT: ARAHIRA, MASAOMI
APPLICANT: FUKAZAWA, CHIKAFUSA
TITLE OF INVENTION: QUICK ASSAY METHOD FOR THE ACTIVITY OF A PLANT-DERIVED, ASPARAG
TITLE OF INVENTION: RESIDUE-SPECIFIC ENDOPROTEASE
FILE REFERENCE: 8361-0008-0
CURRENT FILING DATE: 1999-10-01
CURRENT FILING DATE: 1999-10-01
PRIOR APPLICATION NUMBER: JP10-327536
PRIOR FILING DATE: 1998-11-04
NUMBER OF SEQ ID NOS: 11
SOFTWARE: PATENTIN VETSION 3.0
SEQ ID NO 10
LENGTH: 11
TYPE: PRT
ORGANISM: Glycine max
US-09-410-025-10
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US-09-410-025-10
; Sequence 10, Application US/09410025
; Patent No. 6251623
Search completed: November 12, 2002, 16:20:51 Job time : 16 secs
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                                                                                                                                                                 Query Match 50.0%; Score 5; DB 4; Best Local Similarity 100.0%; Pred. No. 7.4; Matches 5; Conservative 0; Mismatches
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3 IKRIQDD 9
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Minimum
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No.
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Perfect score:
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      Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed.
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: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
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US-09-966-871-81
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US-09-764-877-1816
US-09-764-877-1816
US-09-864-761-44645
US-09-864-761-37689
US-09-815-242-13622
US-09-815-242-13622
US-09-764-853-722
US-09-764-853-722
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US-09-815-242-12043
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US-09-815-242-12709
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Sequence 2, App
Sequence 2, App
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             sequence 1816; Ap
sequence 41362; A
sequence 44645; A
sequence 37689; A
sequence 13461; A
sequence 13622; A
sequence 36797; A
sequence 722; App
sequence 1652; App
sequence 1188; Ap
sequence 1188; Ap
sequence 5779; A
sequence 5779; A
sequence 12709; A
sequence 2, Appli
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46	46	19	24	24	24	e 23	39	23	e 23	ω	e 4,	73,	58,	•	Sequence 10895, A	12301,	Sequence 5394, Ap	Sequence 42, Appl	11518,	9	408	۳,	Sequence 2, Appli	Sequence 2, Appli	Sequence 1297, Ap

ALIGNMENTS

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US-09-867-569-9; Sequence 9, Application US/09867569; Patent No. US20010036650A1
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US-09-966-871-81
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CURRENT FILING DATE: 2001-05-31
PRIOR APPLICATION NUMBER: 09/082,529
PRIOR FILING DATE: 1998-05-21
PRIOR APPLICATION NUMBER: 08/458,970
PRIOR FILING DATE: 1995-06-02
PRIOR APPLICATION NUMBER: PCT/US94/09234
PRIOR FILING DATE: 1994-08-16
              Sequence 81, Application US/09966871
Patent No. US20020127539A1
GENERAL INFORMATION:
APPLICANT: Kopin, Alan S.
TITLE OF INVENTION: Assays for Identifying Receptors Having
TITLE OF INVENTION: Alterations in Signaling
                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
Matches 10; Conserv
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SOFTWARE: PatentIn version 3.0
SEQ ID NO 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
APPLICANT: L1 et al.
TITLE OF INVENTION: C5a Receptor
FILE REFERENCE: PF130D1C1
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pred. No. 0.00027;
); Mismatches 0;
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RESULT 4
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                                                 SEQ ID NO 1816
LENGTH: 50
TYPE: PRT
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SEQ ID NO 81
LENGTH: 359
TYPE: PRT
ORGANISM: Homo sapiens
5-09-966-871-81
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Best Local Similarity
Matches 10; Conserv
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Best Local Similarity
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Patent No. US20020147170A1
                                                                                                                                                  APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins,
FILE REFERENCE: PC005
CURRENT APPLICATION NUMBER: US/09/764,877
CURRENT FILING DATE: 2001-01-17
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APPLICANT: Beinborn, Martin
TITLE OF INVENTION: Constitutively Active, Hypersensitive,
TITLE OF INVENTION: and No. US20020147170Alfunctional Receptors as No. US20020147170FILE REFERENCE: 00398/510002
                                                                                                 Prior application data removed - NUMBER OF SEQ ID NOS: 4031 SOFTWARE: Patentin Ver. 2.0
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                                ORGANISM: Homo sapiens
                FEATURE
NAME/KEY: SITE
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WWMBER: US 60/288,644
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Pred. No. 0.00027;
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                                                                          SOFTWARE: Annomax SEQ ID NO 41362
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PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
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CURRENT FILING DATE: 2001-05-23
                                                                                                                    NUMBER OF SEQ ID NOS: 49117
                                                                                                                                       PRIOR FILING DATE: 2001-01-29
                                                                                                                                                                            PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: PCT/US01/00670 PRIOR FILING DATE: 2001-01-30
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PRIOR FILING DATE: 2001-01-30
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PRIOR APPLICATION NUMBER: PCT/US01/00662
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME/KEY:
LOCATION:
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OTHER INFORMATION:
                                     LENGTH: 60
TYPE: PRT
ORGANISM: FEATURE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: PCT/US01/00669 FILING DATE: 2001-01-30
                                                                                                                                                           APPLICATION NUMBER: US
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PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR FILING DATE: 2000-08-03
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FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT/US01/00670
FILING DATE: 2001-01-30
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APPLICATION NUMBER: US 60/236,359
FILING DATE: 2000-09-27
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                                                                                                                                     APPLICATION NUMBER: US 60/234,687 FILING DATE: 2000-09-21
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APPLICATION NUMBER: US FILING DATE: 2001-01-29
                                                                APPLICATION NUMBER: US (FILING DATE: 2000-06-30
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SWISSPROT HIT: 031500, EVALUE 6.10e-02
EST_HUMAN HIT: D81625.1, EVALUE 2.00e-20
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ED IN BONE MARROW, SIGNAL = 6.7
ED IN LUNG, SIGNAL = 6.5
ED IN HELA, SIGNAL = 5.9
ED IN HEART, SIGNAL = 5.9
ED IN HEART, SIGNAL = 5.8
ED IN FETAL LIVER, SIGNAL = 5.8
ED IN BRAIN, SIGNAL = 6.4
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SEQ ID NO 44645
LENGTH: 73
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PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR APPLICATION NUMBER: US 60/236,359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC
TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
                                                                                                                               PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
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PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
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PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
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CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23
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APPLICATION NUMBER: PCT/US01/00665
FILING DATE: 2001-01-30
APPLICATION NUMBER: PCT, FILING DATE: 2001-01-30
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Hanzel, David K.
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ED IN PLACENTA, SIGNAL = 1.1
ED IN HELA, SIGNAL = 2.4
ED IN FETAL LIVER, SIGNAL = 1.9
ED IN BONE MARROW, SIGNAL = 1.6
ED IN ADULT LIVER, SIGNAL = 1.6
ED IN ADULT LIVER, SIGNAL = 1.4
ED IN BRAIN, SIGNAL = 2.1
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PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence Listing Engine vers.
SEQ ID NO 37689
                                      SOFTWARE: FastSEQ for Windows Version SEQ ID NO 13461 LENGTH: 247
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 13461, Application Patent No. US20020061569A1
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Best Local :
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                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Xu, H. Howard
TITLE OF INVENTION: Identification
TITLE OF INVENTION: Prokaryotes
FILE REFERENCE: ELITRA.011A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Haselbeck, Robert APPLICANT: Ohlsen, Kari L.
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                                                                                                    NUMBER OF SEQ ID NOS: 14110
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ORGANISM: Streptococcus pneumoniae
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                                                                                                                APPLICATION NUMBER: 60/257,931
FILING DATE: 2000-12-22
APPLICATION NUMBER: 60/269,308
FILING DATE: 2001-02-16
                                                                                                                                                                                                                                  APPLICATION NUMBER: 60/242,578 FILING DATE: 2000-10-23
                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 60/207,727 FILING DATE: 2000-05-26
                                                                                                                                                                                                FILING DATE: 2000-11-
                                                                                                                                                                                                                APPLICATION NUMBER: 60/253,625
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ED IN FETAL LIVER, SIGNAL = 1.1
ED IN ADULT LIVER, SIGNAL = 1.2
ED IN PLACENTA, SIGNAL = 1.6
ED IN HEART, SIGNAL = 1.6
ED IN HELA, SIGNAL = 1.1
ED IN HELA, SIGNAL = 1.1
ED IN HELA, SIGNAL = 1.1
ED IN HELA, SIGNAL = 1.5
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HIT: A1656423.1, EVALUE 2.00e-56
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Pred. No.
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RESULT 10
US-09-864-761-36797
; Sequence 36797, Application US/09864761
; Patent No. US20020048763A1
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US-09-815-242-13622
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PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/269,308
                                                                                                                                                                                                                                                                                                                                                                                                                                               SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 13622
LENGTH: 247
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Best Local
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                            APPLICANT: Penn, Sharron G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC
TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILE REFERENCE: ELITRA.011A
CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Xu, H. Howard TITLE OF INVENTION: Identification of Essential Genes TITLE OF INVENTION: Prokaryotes
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PRIOR FILING DATE: 2000-05-23
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                 FILE REFERENCE: Aeomica-X-1
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CURRENT APPLICATION NUMBER: US/09/864,761
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Zyskind, Judith W.
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PRIOR FILING DATE: 2000-02-04 PRIOR APPLICATION NUMBER: US 6 PRIOR FILING DATE: 2000-05-26

APPLICATION NUMBER:

DATE:

2001-05-23

us 60/180,312

US 60/207,456

PRIOR APPLICATION NUMBER: US 09/632,366

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US-09-764-853-722
US-09-764-853-722
; Sequence 722, Application US/09764853
; Patent No. US20020090672A1
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Best Local Similarity
Matches 5; Conserv
GENERAL INFORMATION:
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SOFTWARE: Annomax Sequence
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PRIOR APPLICATION NUMBER: GB 24263.6
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                                                                                                                                                            2 DGIKR 6
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FILING DATE: 2000-09-21
APPLICATION NUMBER: US 09/608,408
FILING DATE: 2000-06-30
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FILING DATE: 2001-01-30
FILING DATE: US 60/234,687
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APPLICATION NUMBER: PCT/US01/00668
FILING DATE: 2001-01-30
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APPLICATION NUMBER: PCT/US01/00667
FILING DATE: 2001-01-30
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APPLICATION NUMBER: US 60/236,359
FILING DATE: 2000-09-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: PCT/US01/00670
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: PCT/US01/00664
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER:
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EXPRESSED
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EXPRESSED IN FETAL LIVER, SIGNAL = 0.96
EXPRESSED IN HBL100, SIGNAL = 0.75
EXPRESSED IN BT474, SIGNAL = 0.72
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100.0%; Pro
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HIT: P46486, EVALUE 1.10e-01
HIT: AW664693.1, EVALUE 2.00e-57
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IN BRAIN, SIGNAL = 1.1
IN ADULT LIVER, SIGNAL =
IN HELA, SIGNAL = 0.7
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b. 45;
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; FEATURE:
; NAME/KEY: SITE
; LOCATION: (3)
; OTHER INFORMATION: X
US-09-764-853-722
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SEQ ID NO 480
LENGTH: 296
TYPE: PRT
ORGANISM: Homo sapiens
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US-09-925-300-1652
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US-09-764-853-480
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APPLICANT: ROSEN et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PUZ06
CURRENT APPLICATION NUMBER: US/09/764,853
CURRENT FILING DATE: 2001-01-17
                                                                             Sequence 1652, Application US/09925300
Patent No. US20020151681A1
GENERAL INFORMATION:
APPLICANT: Craig Rosen,
APPLICANT: Steve Ruben
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
FILE REFERENCE: PA101
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              CURRENT APPLICATION NUMBER: US/09/925,300 CURRENT FILING DATE: 2001-08-10 PRIOR APPLICATION NUMBER: PCT/US00/05988 PRIOR FILING DATE: 2000-03-08
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CURRENT FILING DATE: 2001-01-17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: Rosen et al
PRIOR APPLICATION NUMBER: 60/124,270
                                                                                                                                                                                                                                                                                                                                                                                                                            NAME/KEY: SITE LOCATION: (20) OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: PRT
ORGANISM: Homo
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Pred. No.
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PRIOR APPLICATION UNMBER: USSN 60/208,427
PRIOR FILING DATE: 2000-05-30
NUMBER OF SEQ ID NOS: 2125
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1188
PLENCTH: 318
TYPE: PRT
ORGANISM: Homo sapiens
US-09-867-550-1188
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; TYPE: PRT
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; PEATURE:
; NAME/KEY: SITE
; LOCATION: (289)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; US-09-925-300-1652
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Best Local Similarity
Whes 5; Conserve
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US-09-815-242-12043
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              APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari L.
APPLICANT: Zyskind, Judith W.
APPLICANT: Zwall, Daniel
APPLICANT: Trawick, John D.
APPLICANT: Carr, Grant J.
APPLICANT: Yamamoto, Robert T.
APPLICANT: Yu, H. Howard
TITLE OF INVENTION: Identification of
TITLE OF INVENTION: Prokaryotes
FILE REFERENCE: ELITRA.011A
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NUMBER OF SEQ ID NOS: 1890
SOFTWARE: PATENTIN VET. 2.0
SEQ ID NO 1652
LENGTH: 312
                                                                                                                                                                                                                                  GENERAL INFORMATION:
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Best Local Similarity
Matches 5; Conserv
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Patent No. US20020061569A1
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APPLICANT:
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TITLE OF INVENTION: No. US20020082206Alel Polynucleotides from Atherogenic Cells and
TITLE OF INVENTION: Thereby
FILE REFERENCE: 21402-013 (Cura-313)
CURRENT APPLICATION NUMBER: US/09/867,550
CURRENT FILING DATE: 2001-09-20
CURRENT FILING DATE: 2001-09-20
CURRENT APPLICATION NUMBER: US/09/815,242
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Conley, Pamela
Law, Debbie
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illarity 100.0%; Pred. No. 55
Conservative 0; Mismatches
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                                                        of Essential Genes
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PRIOR APPLICATION NUMBER: 60/242,578
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR PRILING DATE: 2000-11-27
PRIOR FILING DATE: 2000-12-22
PRIOR PRILING DATE: 2001-02-16
PRIOR FILING DATE: 2001-02-16
NUMBER OF SEQ ID NOS: 14110
SOFTWARE: FSSTEED for Windows Version 4.0
SEQ ID NO 12043
LENGTH: 338
TYPE: PRT
ORGANISM: PSeudomonas aeruginosa
US-09-815-242-12043
Search completed: November 12, 2002, 16:21:07 Job time: 10 secs
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Best Local Similarity
Matches 5; Conserv
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PRIOR APPLICATION NUMBER: 60,
PRIOR FILING DATE: 2000-03-21
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PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
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Q8rep1 fusobacteri
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                                                                                                           InterPro; IPR000276; GPCR_Rhodpsn.

Pfam; PF00001; 7tm_1; 1.

PRINTS; PR00237; GPCRRHODDPSN.

PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.

PROSITE; PS00237; G_PROTEIN_RECEP_F1_2; 1.

G-protein coupled receptor; Glycoprotein; Transmembrane.

SEQUENCE 343 AA; 39155 MW; 2CC6A22004CCA93C CRC64;
                                                                                                                                                                                                                                    Murphy T.J., Takeuchi K., Alexander R.W.;
"Molecular cloning of AT1 angiotensin receptors.";
Am. J. Hypertens. 5:236-236(1992).
-!- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN (BY SIMILARITY).
                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rat NCBI_TaxID=10118;
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-!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN CLEMBL; AR193445; AAG28410.1; -.

EMBL; AR193445; AAG28410.1; -.

HSSP; P34996; 1DDD.
InterPro; IPRO00276; GPCR Rhodpsn.
InterPro; IPRO00276; GPCRRHODOPSN.
PRANTS; PRO0237; GPCRRHODOPSN.
PROSITE; PS00237; GPCRHODOPSN.
PROSITE; PS00237; GPROTEIN_RECEP_F1_1; 1.
PROSITE; PS00237; G_PROTEIN_RECEP_F1_2; 1.

PROSITE; PS002362; G_PROTEIN_RECEP_F1_2; 1.

PROSITE; PS002362; G_PROTEIN_RECEP_F1_2; 1.

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Angiotensin receptor 1.
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Genomics 69:14-26(2000)
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pan.
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Mammalia; Eutheria;
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Last annotation update)
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                                                                                                      Score 10; DB 6;
Pred. No. 0.0018;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Craniata; Vo
Catarrhini;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AF90BE7F21E911BA CRC64;
                                                                                    Mismatches
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1 OF G-PROTEIN
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                                                                                                                                                                                            Receptor;
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                                                                                                                            Length
                                                                                                                                                                        CRC64;
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RESULT Q9NOU1

Query Match Best Local Similarity

90.0%;

Score ?

DB 11; . 0.023;

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RC TISSUE-GALL BLADDER;

RC TISSUE-GALL BLADDER;

RA Busmann A., Noack T., Zucht HD., Forssmann W.G., ...,

RY "Isolation of Anglotensin I from human hemofiltrate as a potent modulator of KATP channels.";

RI Submitted (NOV-2000) to the EMBL/GenBank/DDBJ databases.

CC -:- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN (BY SIMILARITY).

CC -:- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN (BY SIMILARITY).

CC -:- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.

DR HSSP: P34996; 1DDD.

DR HSSP: P34996; 1DDD.

DR HSSP: P34996; 1DDD.

DR PFORD: IPRO00276; GPCR_Rhodpsn.

Pfam; PFO0001; 7tm_1; 1.

DR PRONITS; PRO0237; GPCRRHODOPSN.

PROSITE; PS00237; GPCRRHODOPSN.

PROSITE; PS00237; GPCRRHODOPSN.

PROSITE; PS00237; GPROTEIN_RECEP_F1_2; 1.

"" G-protein coupled receptor; Glycoprotein; Receptor; Transmembrane.

"" G-protein coupled receptor; Glycoprotein; Receptor; Transmembrane.
                                                                        Q9EPP3
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Best Local (
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01-MAR-2001
01-MAR-2001
01-MAR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-MAR-2002 (TrEMBLrel. 20, Last annotation update)
Angiotensin II type 1 receptor.
Ovis aries (Sheep).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Q9N0U1;
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PRINTS; PR00237; GPCRRHODDPSN.

PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.

PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.

G-protein coupled receptor; Glycoprotein; Receptor; SEQUENCE 359 AA; 41062 MW; C07010EDB81110EB CRC6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Endocr. Res. 0:0-0(2000).

1- SUBCELLULAR LOCATION: INTEGRAL MEMBRANE PROTEIN (BY SIMILARITY).

1- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.

EMBL; AF254119; AAF66063.1; -

HSSP; P34996; 1DDD.
                                                                                                                                                                                                                                                                                                                                                                                                                                          Cavia porcellus (Guinea pig).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleosto
Mammalia; Eutheria; Rodentia; Hystricognathi; Caviidae; Cavia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Angiotensin II type AT1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Q9EPP3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TISSUE-ADRENAL CORTEX;
Bird I.M., Millican D.S.;
"Isolation of a Full Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bovidae; Caprinae;
NCBI_TaxID=9940;
                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID=10141;
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10; Conser
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llarity 100.0%;
Conservative (
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Last annotation update)
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e 9;
No.
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A Dale J.M., Gibson H.A., Goldsmith A.D., Jiang P.X., Lee J.M.,
A Quach H.L., Tang C., Toriumi M., Yu G., Bowser L., Carninci P.,
A Chen H., Cheuk R., Hayashizaki Y., Ishida J., Jones T., Kamiya A.,
A Karlin-Neumann G., Kawai J., Kim C., Koesema E., Lam B., Lin J.,
A Meyers M.C., Miranda M., Narusaka M., Nguyen M., Palm C.J.,
A Meyers M.C., Miranda M., Narusaka M., Nguyen M., Palm C.J.,
A Sakurai T., Satou M., Seki M., Shinn P., Southwick A., Tracy S.E.,
A Shinozaki K., Davis R.W., Ecker J.R., Theologis A.;
Trull Length cDNA of gene F23H14.6/At2g01090 (GI:6598624).";
Submitted (JUN-2001) to the EMBL/GenBank/DDBJ databases.

BMBL; AF360220; AAK25930.1; -.
BMBL; AF360220; AAK25930.1; -.
BMBL; AF360220; AAK25930.1; -.
                                                                                                                Query Match
Best Local S
Matches 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN=CV. COLUMBIA;
MEDLINE=20083487; PubMed=10617197;
MEDLINE=20083487; PubMed=10617197;
Lin X., Kaul S., Rounsley S.D., Shea T.P., Benito M.-I., Town C.D.,
Fujii C.Y., Mason T.M., Bowman C.L., Barnstead M.E., Feldblyum T.V.,
Fujii C.Y., Mason T.M., Bowman C.L., Barnstead M.E., Feldblyum T.V.,
Buell C.R., Ketchum K.A., Lee J.J., Ronning C.M., Koo H., Moffat K.S.
Cronin L.A., Shen M., Vanaken S.E., Umayam L., Tallon L.J., Gill J.E.
Adams M.D., Carrera A.J., Creasy T.H., Goodman H.M., Somerville C.R.,
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                                                                                                                                                                                                                                      SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A
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01-MAY-2000
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                                                                                                                                                                                                                                InterPro; IPR003422; UCR_hinge. Pfam; PF02320; UCR_hinge; 1. SEQUENCE 62 AA; 7372 MW; 20
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                                                                                                             Local Similarity les 6; Conserv
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(TrEMBLrel. 13, Last sequence update)
(TrEMBLrel. 19, Last annotation updat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
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                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17
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                                                                                                                                               Score 6; I
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5. 9.9;
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                                                                                                                                                                     Length 62;
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RESULT PRESULT OF STATE OF STA
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Q51511;
Q1-NOV-1996 (TrEMBLrel. 01, C1
01-NOV-1996 (TrEMBLrel. 21, La
01-JUN-2002 (TrEMBLrel. 21, La
PhaCl, phaC2 and phaD genes ()
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01-JUN-2002 (TrEMBLrel. 21, Created)
01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
01-JUN-2002 (TrEMBLrel. 21, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Cloning and molecular analysis of the poly(3-hydroxyalkanoic gene locus of Pseudomonas aeruginosa PAO1.";
Eur. J. Biochem. 209:15-30(1992).
EMBL; X66592; CAA47149.1; -...
HSSP; P32188; 1E94.
1 1
                                                                                                                                                                                                                                                                                                                                                           "Genome sequence and analysis of the oral nucleatum strain ATCC 25586.";
                                                                                                                                                                                                                                                                                                                                                                                                                         Bhattacharyya A., Bartman A., Gardner W., Gre
Vasieva O., Chu L., Kogan Y., Chaga O., Golts
Larsen N., D'Souza M., Walunas T., Pusch G.,
Fonstein M., Kyrpides N., Overbeek R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRAIN=ATCC 25586;
MEDLINE=21886394; PubMed=11889109;
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Bacteria; Proteobacteria; gamma subdivision; Pseudomonadaceae;
                                                                                                                                                                                                                                     SEQUENCE
                                                                                                                                                                                                                                                                 Transferase;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=93011120; PubMed=1396693;
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3 GIKRIQ
                                                                                                                                                                                                                                                                                            Bacteriol. 184:2005-2018(2002).
BL; AE010612; AAL95253.1; -.
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                                                                                                                                                                                                                                     2; Acyltransferase; Complete proteome.
146 AA; 17786 MW; BB35B2848DA73C7B
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llarity 100.0%;
Conservative
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                                                                                                                                       100.0%;
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, Last annotation of the control of the contro
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s; Pred. No. 18
0; Mismatches
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                                                                                                    0;
                                                                                                                                   Score 6;
Pred. N
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                                                                                                    Mismatches
                                                                                                                                       No.
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., Goltsman E., Bernal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Reznik G., Los T.,
                                                                                                                                                                   DB 16;
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OC Bacte
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RN [2]
RN SEQUE
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RA Chen
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RA CHENBL;
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Q58498;
Q1-JAN-1998
Q1-JAN-1998
             SEQUENCE FROM N.A.

STRAIN-MB4T / JCM11007;

MEDLINE-21992816; PubMed-11997336;

Bao Q., Tian Y., Li W., Xu Z., Xuan Z., Hu S., Don.
Chen Y., Xue Y., Xu Y., Lai X., Huang L., Dong X.,
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"A complete sequence of T. tengcongensis genome.";
Genome Res. 12:689-700(2002).

EMBL; AE013094; AAM24565.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN=JAL-1 / DSM 2661 / ATCC 43067;

MEDLINE=96337999; pubMed=8688087;

Bult C.J., White O., Olsen G.J., Zhou L., Fleischmann R.D.,

Sutton G.G., Blake J.A., FitzGerald L.M., Clayton R.A., Gocayne J.D.,

Kerlavage A.R., Dougherty B.A., Tomb J.-F., Adams M.D., Reich C.I.,

Overbeek R., Kirkness E.F., Weinstock K.G., Merrick J.M., Glodek A.,

Scott J.L., Geoghagen N.S.M., Weidman J.F., Fuhrmann J.L., Nguyen D.,

Utterback T.R., Kelley J.M., Peterson J.D., Sadow P.W., Hanna M.C.,

Cotton M.D., Roberts K.M., Hurst M.A., Kaine B.P., Borodovsky M.,

Klenk H.-P., Fraser C.M., Smith H.O., Woese C.R., Venter J.C.;

"Complete genome sequence of the methanogenic archaeon, Methanococcus
                                                                                                                                                                                                                                                      Q8RA85;
01-JUN-2002 (TrEMBLrel. 21,
01-JUN-2002 (TrEMBLrel. 21,
01-JUN-2002 (TrEMBLrel. 21,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Science 273:1058-1073(1996).
-- SIMILARITY: P.CANADENSIS HYI
-- 3'REGION AND YEAST PROBABLE
EMBL; U67552; AAB99101.1; --
TIGR; MJ1098; --
Complete proteome.
                                                                                                                                                                                  Thermoanaerobacteriales;
                                                                                                                                                                                            Thermoanaerobacter tengcongensis.
Bacteria; Firmicutes; Bacillus/Clostridium
                                                                                                                                                                                                                             Transcriptional regulator. RPIR3 OR TTE1343.
                                                                                                                                                                                                                                                                                                                    Q8RA85
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hypothetical SEQUENCE 2
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Pfam; PF03161; LAGLIDADG_2; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A
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NCBI_TaxID=2190;
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jannaschii.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11 protein;
254 AA; 3
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3 (TrEMBLrel. 05, )
2 (TrEMBLrel. 21, )
11 protein MJ1098.
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Thermoanaerobacteriaceae; Thermoanaerobacter
                                                                                                                                                                                                                                                                                                                                                                                                                                                   %; Score 6; DB 1
%; Pred. No. 33;
0; Mismatches
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Q8RIB8;
Q8RIB8;
01-JUN-2002 (TrEMBLrel. 2:
01-JUN-2002 (TrEMBLrel. 2:
01-JUN-2002 (TrEMBLrel. 2:
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SEQUENCE
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InterPro; IPR001772; Kinase_Cterm.
InterPro; IPR000449; UBA_domain.
Pfam; PF02149; KA1; 1.
Pfam; PF00069; pkinase; 1.
Pfam; PF00627; UBA; 1.
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Solanum tuberosum (Potato).
Solanum tuberosum (Potato).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Spermatophyta; Magnoliophyta; Solanaceae; Solanum.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SMART; SM00165; UBA; 1.
PROTEIN_KINASE_DOM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Man A.L., Purcell P.C., Hannappel U., "Potato SNF1-related protein kinase: m analysis and peptide kinase activity m Plant Mol. Biol. 34:31-43(1997).
EMBL; X95996; CAA65243.1; -
                                                                                               Fusobacterium nucleatum Bacteria; Fusobacteria; NCBI_TaxID=76856;
                    STRAIN=ATCC 25586;
MEDLINE=21886394; PubMed=11889109;
                                                            SEQUENCE FROM
                                                                                                                                                                  FN1684
                                                                                                                                                                                   N-acetylneuraminate
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                                                                                                                      fusobacterium.
  Ivanova N.,
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e (EC
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Pred. No
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37;
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b. 44;
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  Reznik G.,
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  Los T.,
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RESULT 14
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DT 01-MA
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01-MAY-2000 (TERMBLrel. 13, Cr

01-MAY-2000 (TERMBLrel. 13, Lr

1-74N-2002 (TEMBLrel. 21, I
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01-JUN-2002 (
CG11155 prote
CG11155.
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01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-JUN-2001 (TrEMBLrel. 17, Last annotation update)
                                  NCBI_TaxID=7227
                                                                    Ephydroidea;
                                                                                           Drosophila melanogaster (Fruit fly).
Eukaryota; Metazoa; Arthropoda; Tracheata; He
Pterygota; Neoptera; Endopterygota; Diptera;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Complete
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Pfam; PF01547; SBP_bacterial_1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          halodurans and genomic sequence comparison Nucleic Acids Res. 28:4317-4331(2000). EMBL; AP001513; BAB05643.1; -.
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Bacillaceae; Bacillus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Complete genome sequence of the alkaliphilic bacterium Bacillus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     274 DGIKRI 279
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                                                                    Drosophilidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                K., Takaki Y., Maeno G., Sa
Nakamura Y., Ogasawara N.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            48207 MW;
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Last annotation updat
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                                                                                                                                 Tracheata; Hexapoda; Insecta;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      No.
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5.52;
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                                                                                               Brachycera; Muscomorpha;
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Pseudomonas aeruginosa
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RESULT 15
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A Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
A Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
A Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
A Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
A Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
A Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
A Spier E., Wassarman D.A., Weinstock G.M., Weissenbach J.,
Wang Z.-Y., Wassarman D.A., Weinstock G.M., Weissenbach J.,
A Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
A Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
A Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
A Zheng X.H., Zhong F.N., Zhong W., Zhou, X., Zhu X., Smith H.O.,
A Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
"The genome sequence of Drosophila melanogaster.";
Science 287:2185-2295(2000).
                    Q9HUC5
Q9HUC5;
Q9HUC5;
Q1-MAR-2001 (TrEMBLrel. 16
01-MAR-2001 (TrEMBLrel. 1f
01-JUN-2002 (TrEMBLrel. 2
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Best Local
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Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottler P.,
Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davles P.,
Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davles P.,
Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davles P.,
Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davles P.,
Davblos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
Durbin K.J., Evangelista C.C., Ferraz C., Ferriera S., Fleischmann W.,
Fosler C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
Glodek A., Gong F., Gorrell J.H., Gu.S., Gunn P., Harris M.,
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Heat shock protein HSLU OR PA5054.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRINTS; PR00177; NMDARECEPTOR. ProDom; PD000500; Ion_glu_rece
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pfam; PF00060; lig_chan;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro; IPR001320; Ion_glu_receptor.
InterPro; IPR001622; K+channel_pore.
InterPro; IPR001508; NMDA_receptor.
InterPro; IPR001311; SBP/glu_receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EMBL; AE003846; AAF59382.1; -. HSSP; P19491; 1GR2.
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CE 442 AA;
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Pred. No.
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Smith H.O.,
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OC Bacteria; Proteobacteria; gamma subdivision; Pseudomonadaceae;
OC NCBL_TaxID=287;
RN [1]
RN [1]
RR SEQUENCE FROM N.A.
RC STRAIN=ATCC 1592 / PAO1;
RX MEDLINE=20437337; PubMed=10984043;
RX Stover C.K., Pham X.-Q.T., Ewin A.L., Mizoguchi S.D., Warrener P.,
RA Stover C.K., Pham X.-Q.T., Ewin A.L., Mizoguchi S.D., Warrener P.,
RA Stover C.K., Pham X.-Q.T., Ewin A.L., Mizoguchi S.D., Warrener P.,
RA Stover C.K., Pham X.-Q.T., Ewin A.L., Mizoguchi S.D., Warrener P.,
RA Stover C.K., Pham X.-Q.T., Ewin A.L., Mizoguchi S.D., Warrener P.,
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RA Stover C.K., Pham X.-Q.T., Ewin A.L., Mizoguchi S.D., Warrener P.,
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RA Stover C.K., Pham X.-Q.T., Ewin A.L., Mizoguchi S.D., Warrener P.,
RA Stover C.K., Pham X.-Q.T., Ewin A.L., Mizoguchi S.D., Warrener P.,
RA Stover C.K., Pham X.-Q.T., Ewin A.L., Mizoguchi S.D., Warrener P.,
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RA Stover C.K., Pham X.-Q.T., Ewin A.L., Mizoguchi S.D., Warrener P.,
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RA Stover C.K., Pham X.-Q.T., Ewin A.L., Mizoguchi S.D., Warrener P.,
RA Stover C.K., Pham X.-Q.T., Pham X.-Q
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Result
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  GenCore version 5.1.3 (c) 1993 - 2002 Compugen Ltd
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HSPR_STRCO
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RL24_SULSO
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RS8_STRCO
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FLPA_METVO
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R10183
P40183
O27189
P32398
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Q9huc5
P05185
P32596
P25351
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P34976
P25095
077590
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P30556
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EMBL; X62; PIR; S1544 HSSP; P344 HSSP; P344 HSSP; P345 InterPro; InterPro; Pfam; P50 PRINTS; P50 PROSITE; I PROSITE; I G-PIOtein Palmitate, DOMAIN TRANSMEM	This SWIS between the Europ use by modified entities or send a	SEQUENCE FROM N.A. SEQUENCE FROM N.A. SEQUENCE FROM N.A. MEDLINE-91251900; PU Sasaki K., Yamano Y Matsuda Y., Inagami "Cloning and express adrenal angiotensin Nature 351:230-233() -i- FUNCTION: RECEP ASSOCIATION WITH CALCIUM SECOND Xi- SUBCELLULAR LOCA -i- TISSUE SPECIFIC: -i- FTM: CARBOXYL-TIi- SIMILARITY: BELO	P25104; 01-MAY-199; 01-MAY-199; 01-NOY-199; Type-1 ang AGTR1. Bos taurus Eukaryota; Mammalia; i Bovidae; Bu	1 OVIN	333 4444 400 400 400 400 400 400 400
X62294 P34996 Pro; IP Pro; IP PFOO; IP	SWISS-PR een the European by non- fied and ties requend an em	E=912 K., a Y., a Y., ng an l ang 351: 351: COLUM CCIUM CCI	04; 04; 1992 AAY-1992 IOV-1997 IOV-1997 I angio 11. taurus () taurus () taurus () taurus () Taxiona; Eu dae; Bov dae; Bov	BOVIN	ហា
; CAA4 ; S1540 ; S1540 ; S1540 ; TDM R00027 1; 7tm 0262; 026	the Swiss pean Bioinfo non-profit and this st requires a an email to	OM N.A. YS1900; Pu YS1900; Pu YS1900; Pu Inagami Inagami d express iotensin 230-233(1 N: RCCEPT TION WITH SECON WITH SECO	2 (Rel. 22 2 (Rel. 22 7 (Rel. 35 iotensin I (Bovine). Metazoa; Eutheria; Ovinae; Bo	STAN	55555555555555555555555555555555555555
14182.1; 33. 33. 76; GPCR_Rhodp 76; GPCR_Rhodp SPCRRHODDESN. G_PROTEIN_REC G_PROTEIN_REC G_PROTEIN_REC 1 CECPPTOT; Tra 27 27 27 27 27 27 28 37 142 27 44 27 44 27 44	Institute of Formatics Institutions institutions institutions tatement is no license agree license gisb.	Y., Bardhan i T, sion of a c n II type-1 (1991). PTOR FOR ANG TH G PROTEIN LONGS TO FAM	8 CC . [1,2,5,5]	STANDARD;	194 196 220 220 220 220 220 220 221 221 221
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Glycoprotein; Lipoprotein; (POTENTIAL). OTENTIAL). (POTENTIAL).	collaborati outstation tions on 1 in no w or commerci .ch/announc	N., Murray J.J., Hasegawa M., ary DNA encoding a bovine "; II. MEDIATES ITS ACTION BY TIVATE A PHOSPHATIDYLINOSITOL- rane protein. , CORTEX, AND KIDNEY. G-PROTEIN COUPLED RECEPTORS. G-PROTEIN COUPLED RECEPTORS.	pdate) update) ; a; Vertebrata; Euteleostomi; Ruminantia; Pecora; Bovoidea;		Q9v074 pyrococcus Q60453 cricetulus P16368 bos taurus Q9ttyl canis famil Q9wuc6 cavia porce Q42146 gallus gall P16035 homo sapien P25785 mus musculu P30121 rattus norv Q38838 arabidopsis Q8xhq3 clostridium Q06659 shigella fl

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  Palmitate; Phosphorylation.
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Pfam; PF00001; 7tm_1; 1.
PRINTS; PR000237; GPCRRHODDPSN.
PROSITE; PS00237; G_PROTEIN_RECEP_
PROSITE; PS50262; G_PROTEIN_RECEP_
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01-NOV-1995 (Rel. 32,
15-JUL-1998 (Rel. 36,
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Mammalia; Eutheria;
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                                                                                                                                                                                                                                                                            G_PROTEIN_RECEP_F1_1; 1.
G_PROTEIN_RECEP_F1_2; 1.
receptor; Transmembrane;
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Carnivora; Fissipedia; Canidae;
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PROSITÉ; PS00237; G_PROTEIN_RECEP_F1_1; 1.
PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.
G-protein coupled receptor; Transmembrane;
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Hosoda Y., Fujino I., Akagawa K., Kuwahara A.;
"Molecular cloning of guinea pig angiotensin type 1 receptor.";
Biol. Signals Recept. 9:231-239(2000).
-i- FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES ITS ACTION BY
ASSOCIATION WITH G PROTEINS THAT ACTIVATE A PHOSPHATIDYLINOSITOL-
CALCIUM SECOND MESSENGER SYSTEM (BY SIMILARITY).
-i- SUBCELLULAR LOCATION: Integral membrane protein.
-i- SUBCELLULAR LOCATION: SECOND MESSENGER SYSTEM (BY SIMILARITY).
-i- SUBCELLULAR LOCATION: Integral membrane protein.
-i- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleosto
Mammalia; Eutheria; Rodentia; Hystricognathi; Caviidae; Cavia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence up
15-JUN-2002 (Rel. 41, Last annotation
Type-1 angiotensin II receptor (AT1).
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InterPro; IPR000276; GPCR_Rhodpsn.
                                                                                                                                                                                                                                                                                                                                                                                                                                             use by non-profit institutions as long modified and this statement is not removed. entities requires a license agreement (See
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                                                                                                                                                                                                                       Palmitate; Phosphorylation
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                                                                                                                                                                                                                                                                                                                                                                                                                             equires a license agreement (See http://www.isb-sib.ch/announce/email to license@isb-sib.ch).
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P30556;
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MEDLINE-92181475; PubMed-1543512;

Furuta H., Guo D.F., Inagami T.;

"Molecular cloning and sequencing

angittensin II type 1 receptor.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE-2337608; PubMed-1378723;
MEDLINE-2337608; PubMed-1378723;
Mauzy C.A., Hwang O., Egloff A.M., Wu L.H., Chung F.-
"Cloning, expression, and characterization of a gene
human angiotensin II type 1A receptor.";
Blochem. Blophys. Res. Commun. 186:277-284(1992).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-APR-1993 (Rel. 25, Created)
01-APR-1993 (Rel. 25, Last sequence update)
16-OCT-2001 (Rel. 40, Last annotation update)
Type-1 angiotensin II receptor (ATI) (ATIAR).
AGTR1 OR AGTR1A OR AT2R1.
                                                                                                       Takayanagi R., Ohnaka K., Sakai Y., Nakao R., Yanase Inagami T., Furuta H., Gou D.F., Nakamuta M., Nawata "Molecular cloning, sequence analysis and expression encoding human type-1 angiotensin II receptor."; Biochem. Biophys. Res. Commun. 183:910-916(1992).
                                                            SEQUENCE FROM N.A. MEDLINE=92375105;
                                                                                                                                                                                                                                                                                                 Bergsma D.J., Ellis C., Kumar Elshourbagy N.A., Griffin E.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                             Curnow K.M., Pascoe L., White P.C.; "Genetic analysis of the human type-1 angiotensin II receptor.";
                                                                                                                                                                                      MEDLINE=92198490; PubMed=1550596;
                                                                                                                                                                                                                     SEQUENCE FROM N.A.
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MEDLINE=92231907; PubMed=1567413;
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CYTOPLASMIC (POTENTIAL).

N-LINKED (GLCNAC. . .) (POTENTIAL).

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Stadel J.M., Aiyar N
of a human angiotens
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EMBL; Z11162; CAA77513.1; --
EMBL; M87290; AAA35535.1; --
EMBL; M93394; AAA58370.1; --
EMBL; M93394; AAA584644.1; --
EMBL; X65699; CAA46621.1; --
EMBL; AF245699; AAF70464.1; --
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PROSITE; PS00237; G_PROTEIN_RECEP_F1_1;
PROSITE; PS50262; G_PROTEIN_RECEP_F1_2;
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Genew; HGNC:336; AGTR1.
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-!- FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES ITS ACTION BY
-RESCOLATION WITH G PROTEINS THAT ACTIVATE A PHOSPHATIDYLINOSITOL-
CALCIUM SECOND MESSENGER SYSTEM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Doria A., Warram J.H., Krolewski A.S.; "Rapid identification of polymorphisms SNP map of the type i angiotensin ii re
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Ostermann E., Ca
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"Type 1 angiotensin II receptors of adrenal tumors.";
steroids 60:28-34(1995).
                                                                                                                                                                                                                                                                                                                            G-protein coupled receptor;
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Varram J.H., Krolewski A.S.;
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L outstation -
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RESULT 5
AG2R_MOUSE
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AGTRIA.
Mus musculus (Mouse).
Mus musculus (Mouse).
Tharvota; Metazoa; Chordata; Modentia;
                                                                                                                                                                                         This
                                                                                                                                                                                                                                                   "Analysis of the evolution of angiotensin II type 1 receptor gene mammals (mouse, rat, bovine and human).";
Biochem. Biophys. Scommun. 186:1042-1049(1992).
-!- FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES ITS ACTION BY ASSOCIATION WITH G PROTEINS THAT ACTIVATE A PHOSPHATIDYLINOSIT CALCIUM SECOND MESSENGER SYSTEM.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Type-1A angiotensin II receptor (AT1A). AGTR1A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-APR-1993 (Rel. 25, Created)
01-APR-1993 (Rel. 25, Last sequence update)
01-NOV-1997 (Rel. 35, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           P29754;
01-APR-1993
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         PIR; JH0621; JH0621.

PIR; JC1193; JC1193.

HSSP; P34996; 1DD.

MGD; MGI:87964; Agtr1a.

InterPro; IPR000276; GPCR_Rhodpsn.

Pfam; PF00001; 7tm_1; 1.
                                                                                                              or send an
                                                                                                                           entities
                                                                                                                                                                                                                                                                                                                             MEDLINE=92359981; PubMed=1497638;
Yoshida H., Kakuchi J., Guo D.F., Furuta H., I
van der Meer-De Jong R., Inagami T., Ichikawa
                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRAIN=BALB/C; TI
MEDLINE=92287102;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VARIANT
                                                                                    EMBL; S37484; AAB22269.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                              Sasamura
                                                                                                                                                                                                                                                                                                                                                                                                       "Cloning, characterization, and expression of two angiotensin receptor (AT-1) isoforms from the mouse genome.";
                                                                                                                                                                                                                                                                                                                                                                                                                                Dzau V.J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 EDGIKRIQDD 10
                                                                                                                                  s SWISS-PROT entry is copyright. It is produced through ween the Swiss Institute of Bioinformatics and the Ew European Bioinformatics Institute. There are no restriby non-profit institutions as long as its content ified and this statement is not removed. Usage by and
                                                                                                                                                                                                              SUBCELLULAR LOCATION: Integral membrane protein.
PTM: CARBOXYL-TERMINAL SER OR THR RESIDUES MAY BE PHOSPHORYLATED.
SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EDGIKRIODD 17
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                                                                                                             requires a license agreement (See http://www.isb-sib.ch/announce/an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                            H., Hein L.,
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GPCRRHODOPSN
                                                                                                                                                                                                                                                                                                                                                                                             Res.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         PubMed=1599461;
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                                                                                                                                                                                                                                                                                                                                                                                                                                            Krieger J.E., Pratt
                                                                                                                                                                                                                                                                                                                                                                                             Commun. 185:253-259(1992).
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Pred. No.
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BY SIMILARITY
PALMITATE (POTENTIAL).
1 -> V (IN DBSNP:2011425).
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T -> P (IN DBSNP:1801021)
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Sciurognathi;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
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                                                                                                                                                                                                                                                                 A PHOSPHATIDYLINOSITOL
                                                                                                                                                                                                                                                                                                                                                                                                                                            Kobilka B.K.,
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AG2R_RABIT
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Best Local
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CONFLICT
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SEQUENCE
                                                                                                          MEDLINE-93336091; PubMed-7916579;
Burns K.D., Inagami T., Harris R.C.;
"Cloning of a rabbit kidney cortex Ari angiotensin II receptor that is present in proximal tubule epithelium.";
Am. J. Physiol. 264:F645-F654(1993).
-I- FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES ITS ACTION BY ASSOCIATION WITH G PROTEINS THAT ACTIVATE A PHOSPHATIDYLINOSITOL-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DOMAIN
TRANSMEM
                                                                                                                                                                                                                                                                            01-FEB-1994 (Rel.
01-FEB-1994 (Rel.
01-NOV-1997 (Rel.
       the European Bioinformatics Institute. The use by non-profit institutions as long modified and this statement is not removed.
                                         between
                                                  This
                                                                                                                                                                                    TISSUE=Kidney;
                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                             Oryctolagus
                                                                                                                                                                                                                                                        Type-1 angiotensin AGTR1.
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P34976;
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                                                                                                                                                                                                                NCBI_TaxID=9986;
                                                                                                                                                                                                                          Mammalia; Eutheria;
                                                                                                                                                                                                                                    Eukaryota;
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                                                                CALCIUM SECOND MESSENGER SYSTEM.

CALCIUM SECOND MESSENGER SYSTEM.

SUBCELLULAR LOCATION: Integral membrane protein.

PTM: CARBOXYL-TERMINAL SER OR THR RESIDUES MAY BE PHOSPHORYLATED.

SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
                                         SWISS-PROT entry is copyright. It is produced through a collaboration
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                                                                                                                                                                                                                                                                                                                                                                                        EDGIKRIQDD 10
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PS50262;
                                      the Swiss Institute of Bioinformatics
                                                                                                                                                                                                                                      Metazoa;
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38
134
359
                                                                                                                                                                                                                                   cuniculus (Rabbit).
Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                          100.0%; ilarity 100.0%; Conservative 0;
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28, Last sequence update)
35, Last annotation update)
n II receptor (AT1).
a license agreement (See http://www.isb-sib.ch/announce/
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G_PROTEIN_RECEP_F1_2; 1.
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188
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355
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T -> I (IN REF. 2).
RA -> IS (IN REF. 2).
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N-LINKED (GLCNAC. . .)
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CYTOPLASMIC (
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CYTOPLASMIC (
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3 (POTENTIAL)
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2 (POTENTIAL
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Pred. No.
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                There are no restrictions in as its content is in
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           and
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RESULT 7
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Best Local :
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Palmitate;
Iwai N., Yamano Y.,
Sasaki K., Hasegawa
"Rat angiotensin II
gene expression.";
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DOMAIN
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PRINTS; PR00337; GPCRHODDPSN.

PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.

PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.

G-protein coupled receptor; Transmembrane;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DISULFID
LIPID
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CARBOHYD
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DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                   P25095; Q9QVS5;
01-MAY-1992 (Rel. 22, Created)
01-MAY-1992 (Rel. 22, Last sequence up
16-OCT-2001 (Rel. 40, Last annotation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
      MEDLINE-91254291; PubMed-2043116; Iwai N., Yamano Y., Chaki S., Konishi F., Bardhan S., Tibbetts C., Sasaki K., Hasegawa M., Matsuda Y., Inagami T.; Rat angiotensin II receptor: cDNA sequence and regulation of the
                                                                                                                                                                                                                              SEQUENCE FROM N.A.
TISSUE-Vascular smooth muscle;
MEDLINE-91251901; PubMed-2041570;
Murphy T.J., Alexander R.W., Grie
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Mammalla; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rat
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                                                                                                                   SEQUENCE FROM N.A.
                                                                                                                                                                                "Isolation of a cDNA encoding the vascular type-1 angiotensin receptor.":
                                                                                                                                                                                                                  Bernstein K.E.;
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Query Match
Best Local Similarity
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"Cloning, expression and regulation of angiotensin II receptors.";
Eur. Heart J. 15:104-107(1994),
-i- FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES ITS ACTION BY
-IS FUNCTION: WITH G PROTEINS THAT ACTIVATE A PHOSPHATIDYLINOSITOL-
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PRINTS; PR00237; GPCRRHODDPSN.

PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.

PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.

G-protein coupled receptor; Transmembrane;
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Inagami T., Iwai N., Sasaki K.,
Guo D.F., Furuta H., Ohyama K.,
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Langford K.G., Frenzel K., Martin B.M., Bernstein K.E.;
"The genomic organization of the rat AT1 anglotensin receptor.";
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PTM: CARBOXYL-TERMINAL SER OR THR RESIDUES MAY BE PHOSPHORYLATED.
SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
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SUBCELLULAR LOCATION: Integral me
TISSUE SPECIFICITY: IS EXPRESSED
LUNG, UTERUS, OVARY, SPLEEN, HEAR
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      DOMAIN
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      TRANSMEM
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      DOMAIN
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"Specific pregnancy-induced angiotensin II type-1 receptor expression in ovine uterine artery does not involve formation of alternate splice variants or alternate promoter usage.";

Biol. Reprod. 59:219-224(1998).

-i- FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES ITS ACTION BY ASSOCIATION WITH G PROTEINS THAT ACTIVATE A PHOSPHATIDYLINOSITOL-CALCIUM SECOND MESSENGER SYSTEM.

-i- SUBCELLULAR LOCATION: Integral membrane protein.

-i- PTM: CARBOXYL-TERMINAL SER OR THR RESIDUES MAY BE PHOSPHORYLATED.

-i- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDIINE-99103586; PubMed-9888511; Millican D.S., Bird I.M.; "Isolation of an ovine genomic sequence angiotensin II type-1 receptor."; Endocr. Res. 24:387-390(1998).
                                                                                                                                                                                                                                                                                                                                                                                                   This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea
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Pfam; PF00001; 7tm_1; 1.
PRINTS; PR00237; GPCRTHODOPSN.
PROSITE; PS00237; G_PROTEIN_RECEP_F1_1;
PROSITE; PS00237; G_PROTEIN_RECEP_F1_2;
G-protein coupled receptor; Transmembran
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EMBL; AF056308; AAC32613.1;
HSSP; P34996; 1DDD.
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MEDLINE=98351904; PubMed=9687288;
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use by non-profit institutions as long modified and this statement is not removed. entities requires a license agreement (See or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                               InterPro; IPR000276; GPCR_Rhodpsn
Pfam; PF00001; 7tm_1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Novel subtype of human angiotensin II type 1 receptor: cDNA cloning and expression.";
Biochem. Biophys. Res. Commun. 199:467-474(1994).
-i- FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES ITS ACTION BY
ASSOCIATION WITH 6 PROTEINS THAT ACTIVATE A PHOSPHATIDYLINOSITOL-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TRANSMEM
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SUBCELLULAR LOCATION: Integral membrane protein.
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G_PROTEIN_RECEP_F1_2;
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a S., Inada Y.,
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Length 359;

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Last sequence update)
Last annotation update)
I receptor (AT1B) (AT3).

SEQUENCE FROM N.A.
STRAIN-BALB/c; TISSUE-Liver;
MEDLINE-92287102; PubMed-1599461;

Sasamura Dzau V.J.;

H., Hein

L., Krieger J.E., Pratt R.E.,

Kobilka B.K.,

characterization, (AT-1) isoforms from

MEDLINE-92359981; SEQUENCE FROM N.A.

H., Kakuchi J., Guo D.F.,

Furuta H.,

Iwai N.,

PubMed=1497638;

Mus musculus (Mouse). Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Rodentia;

Craniata; Vertebrata; I Sciurognathi; Muridae;

Mus musculus

AG2S_MOUSE

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van der Meer-De Jong R., Inagami T., Ichikawa I.;
"Analysis of the evolution of angiotensin II type 1 receptor gene
"mammals (mouse, rat, bovine and human) ";
"ichicalian in the control of the con
                                                                                                                                                                                                                This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                           Chem. Biophys. Res. Commun. 188:1042-1049(1992).
FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES ITS ACTION BY ASSOCIATION WITH G PROTEINS THAT ACTIVATE A PHOSPHATIDYLINOSITOL-CALCIUM SECOND MESSENGER SYSTEM.
SUBCELLULAR LOCATION: Integral membrane protein.
PTM: CARBOXYL-TERMINAL SER OR THR RESIDUES MAY BE PHOSPHORYLATED.
SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   tion, and expression of two angiotensin ms from the mouse genome."; Commun. 185:253-259(1992).
                                                                                                                                               http://www.isb-sib.ch/announce/
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PRINTS; PR00237; GPCRRHODDPSN.

PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.

PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.

G-protein coupled receptor; Transmembrane;

Palmitate; Phosphorylation.
MEDLINE=92250585; PubMed=1374402; Sandberg K., Ji H., Clark A.J., Shapira H., "Cloning and expression of a novel angiotens J. Biol. Chem. 267:9455-9458(1992).
                                                                                                                                                                                                                                                                                                                                                           Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chordata;
Mammalla; Eutheria; Rodentia;
NCBI_TaxID=10116;
                                                                                                                                                                        FEBS
                                                                                                                                                                                                                                                               STRAIN=Sprague-Dawley;
MEDLINE=92183879; PubMed=1544458;
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                                                                                                TISSUE=Adrenal
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Sciurognathi; Muridae;
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                        apira H., Catt K.J.;
angiotensin II receptor subtype.";
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PIR; S20423; S20423.
PIR; JH0578; JH0578.
PIR; JQ1516; JQ1516.
HSSP; P34996; 1DDD.
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SEQUENCE FROM N.A.
TISSUE-Anterior pituitary;
MEDLINE-92231868; PubMed-1
Callers J.C.,
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DISULFID
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CARBOHYD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             modified and this statement is not removed. entities requires a license agreement (See or send an email to license@isb-sib.ch).
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-!- FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES ITS ACTION ASSOCIATION WITH G PROTEINS THAT ACTIVATE A PHOSPHATIDYLING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Elton T.S., Stephan C. Durand J.N., Oparil S.
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Biochem. Biophys. Res. Commun. 183:1090-1096(1992).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SUBCELLULAR LOCATION: Integral membrane protein.
TISSUE SPECIFICITY: IS EXPRESSED IN THE LIVER, KIDNEY,
LUNG, UTERUS, OVARY, SPLEEN, HEART, ADRENAL GLAND, AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             European Bioinformatics Institute.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PTM: CARBOXYL-TERMINAL SER OR THR RESIDUES MAY BE PHOSPHORYLATED. SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LUNG, UTERUS, OVARY, SPLEEN, SMOOTH MUSCLE CELL.
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G_PROTEIN_RECEP_F1_2; 1.
receptor; Transmembrane;
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V -> M (IN REF.
L -> Y (IN REF.
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N-LINKED (GLCNAC. . .)
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DB 1;
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Brain Res. Mol. Brain."

-1- FUNCTTO:
            CARBOHYD
CARBOHYD
                                                          TRANSMEM
DOMAIN
                                                                                                                                                                                                                            PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.
PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.
G-protein coupled receptor; Transmembrane; Glycoprotein; Lipoprotein;
                                                                                                                                                                                                                                                                            HSSP; P34996; IDDD.
InterPro; IPR000276; GPCR_Rhodpsn
Pfam; PF00001; 7tm_1; 1.
                                                                                                                                                                                                                                                                                                                                      entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                   G-protein coupled receptor; Palmitate; Phosphorylation.
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                                                                                                                                                                                                                                                                                                                                                            use by non-profit institutions as long modified and this statement is not removed
                                                                                                                                                                                                                                                                                                                                                                           the European Bioinformatics Institute. The use by non-profit institutions as long
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "Molecular cloning and pharmacological characterization gerbil angiotensin II type-1 receptor and its mRNA exprand peripheral tissues ".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Saavedra J.M
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Gerbillinae;
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15-JUL-1998 (Rel.
15-JUN-2002 (Rel.
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                                                                                                                                                                                                                                                                                                                                                                                                                                 Brain Res. Mol. Brain Res. 60:234-246(1998).

-!- FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES ITS ACTION BY
ASSOCIATION WITH 6 PROTEINS THAT ACTIVATE A PHOSPHATIDYLINOSITOL-
CALCIUM SECOND MESSENGER SYSTEM (BY SIMILARITY).

-!- SUBCELLULAR LOCATION: Integral membrane protein.

-!- PTM: CARBOXYL-TERMINAL SER OR THR RESIDUES MAY BE PHOSPHORYLATED.

-!- SIMILARITY: BELONGS TO FAMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
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                                   II receptor (AT1) (GKAT1)
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"Molecular cloning and characterization of the angiotensin receptor subtype in porcine aortic smooth muscle.";

EUR. J. Pharmacol. 245:147-156(1993).

-I- FUNCTION: RECEPTOR FOR ANGIOTENSIN II. MEDIATES ITS ACTION BY ASSOCIATION WITH G PROTEINS THAT ACTIVATE A PHOSPHATIDYLINOSITOL-CALCIUM SECOND MESSENGER SYSTEM.

-I- SUBCELLULAR LOCATION: Integral membrane protein.
-I- SUBCELLULAR COCATION: OF AMILY 1 OF G-PROTEIN COUPLED RECEPTORS.
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01-APR-1993 (Rel. 25,
01-NOV-1997 (Rel. 35,
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Palmitate;
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PROSITE; PS00237; G_PROTEIN_RECEP_F1_1; 1.

PROSITE; PS50262; G_PROTEIN_RECEP_F1_2; 1.
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n coupled receptor; T
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232; PubMed=8491254;
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RESULT 15
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DT 15-JUN-2002
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FLPA_METVO
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Best Local
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                                                                                                                                                                                                                                                                                                                                     Pfam; PF0126; Fibrillarin; 1.
Pfam; PF0126; Fibrillarin; 1.
PRINTS; PR00052; FIBRILLARIN.
ProDom; PD004637; Fibrillarin; 1
PROSITE; PS00566; FIBRILLARIN; 1
rRNA processing; RNA-binding.
SEQUENCE 228 AA; 25618 MW; 0.
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CARBOHYD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Agha Amiri K.;
Fibrillarin-like proteins occur in the domain Archae
J. Bacteriol. 176:2124-2127(1994).
-!- FUNCTION: MAY BE INVOLVED IN PRE-RRNA PROCESSING.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRAIN=DSM 1537 /
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the European Bioinformatics Institute. There use by non-profit institutions as long as modified and this statement is not removed. U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation
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01-JUN-1994 (Rel.
15-JUN-2002 (Rel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FLPA_METVO
P35553;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL; X73988; CAA52166.1; PIR; S34646; S34646.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=94193565;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Archaea; Euryarchaeota; Methanococci; Methanococcaceae; Methanococcus.
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HSSP; P32168; 1E94.
InterPro; IPR003593; AAA_ATPase.
InterPro; IPR003959; AAA_ATPase_centr.
InterPro; IPR00491; Hsp_HslVU.
Pfam: PF00004; AAA; 1.
SMART; SM00382; AAA; 1.
TIGREAMS; TIGR00390; hslU; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.

STRAIN-ATCC 15692 / PAO1;

MEDLINE-20437337; PubMed-10984043;

Stover C.K., Pham X.-Q.T., Erwin A.L., Mizoguchi S.D., Warrener P.,

Hickey M.J., Brinkman F.S.L., Hufnagle W.O., Kowalik D.J., Lagrou M.,

Garber R.L., Goltry L., Tolentino E., Westbrock Hadman S., Yuan Y.,

Brody L.L., Coulter S.N., Folger K.R., Kas A., Larbig K., Lim R.M.,

Smith K.A., Spencer D.H., Wong G.K.-S., Wu Z., Paulsen I.T.,

Reizer J., Saler M.H., Hancock R.E.W., Lory S., Olson M.V.;
                                                                                                                                                                                                                                                                                                                                                                                                                        Chaperone; ATP-binding; Complete proteome.

NP_BIND 56 63 ATP (POTENTIAL).

SEQUENCE 447 AA; 50082 MW; BEF5ZE52AA363043 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "Complete genome sequence of Pseudomonas aeruginosa PAO1, opportunistic pathogen.";
Nature 406:959-964(2000).
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SUBUNIT: Interacts with hslv (By similarity).
SUBCELLULAR LOCATION: Cytoplasmic (By similarity).
SIMILARITY: BELONGS TO THE CLPX CHAPERONE FAMILY. HSLU SUBFAMILY.
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                                                                                                                                                                                                                                                                                 l Similarity
6; Conserv
                                                                                                                                                                                                                                                                                 60.0%; Score 6; DB ilarity 100.0%; Pred. No. 6. Conservative 0; Mismatches
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ATP-binding subunit hslU.
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2: /cgn2_6/ptodata/1.
3: /cgn2_6/ptodata/1.
4: /cgn2_6/ptodata/1.
5: /cgn2_6/ptodata/1.
6: /cgn2_6/ptodata/1.
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Match Length DB
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/cgn2_6/ptodata/1/iaa/6B_COMB.pep:*
/cgn2_6/ptodata/1/iaa/BCTUS_COMB.pep:*
/cgn2_6/ptodata/1/iaa/backfiles1.pep:*
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                3 US-08-624-374-1
2 US-08-458-970A-11
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US-08-148-209A-4
US-08-341-212-6
2 US-08-34-222-104
2 US-08-934-222-104
2 US-08-933-843-104
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Compugen Ltd
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32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
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Sequence 2, Appli	Sequence 3, Appli	Sequence 9, Appli	Sequence 4, Appli	Sequence 2, Appli	Sequence 108, App	Sequence 108, App	Sequence 108, App	Sequence 2, Appli	Sequence 6, Appli	Sequence 5, Appli	Sequence 6, Appli	Sequence 107, App	Sequence 107, App				

ALIGNMENTS

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US-08-624-374-1
                                                                   Query Match
Best Local S
Matches 10
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OPERATING SYSTEM: DOS 6.2/Windows 3.1
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/624,374
FILING DATE: March 27, 1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB94/02100
FILING DATE: 27-SEPT-1994
APPLICATION NUMBER: GB 9319877.8
FILING DATE: 27-SEPT-1993
APPLICATION NUMBER: GB 9319877.8
FILING DATE: 27-SEPT-193
APPLICATION NUMBER: GB 9319877.8
FILING DATE: 27-SEPT-193
ATTORNEY/AGENT INFORMATION:
NAME: Klein, Richard M.
REGISTRATION NUMBER: BKY 2 040
REFERENCE/DOCKET NUMBER: BKY 2 040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
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                                                                                                                                                                                                                                                                                                        INFORMATION FOR SEQ ID NO:
                                                                                                                                                                            TOPOLOGY: lin
MOLECULE TYPE:
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                          TELECOMMUNICATION INFORMATION: TELEPHONE: (216) 861-5582 TELEFAX: (216) 241-1666
                                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
                                                                                                                                                                                                                                                    LENGTH:
                                                                   Local Similarity hes 10; Conserv
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MEDIUM TYPE: storable
COMPUTER: Compaq Prol:
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                                                                     0;
                                                                   Score 52; DB 3; Pred. No. 0.00085; Mismatches 0;
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RESULT 2 US-08-458-970A-11

Patent No.

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Application US/08458970A

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US-08-041-219A-6
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                                                                                                                                                                                                                                            Patent No.
                                                                                                                                                                                                                                                                                                                                                                                                           Matches
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GENERAL INFORMATION:
GENERAL INFORMATION:
ET AL.
C58 Receptor
                                                                                                                                          GENERAL INFORMATION:
APPLICANT: FUJISAWA, Yukio
APPLICANT: KURODA, Shun'ichi
APPLICANT: KONCISHI, Hiroaki
TITLE OF INVENTION: ANGIOTENS
TITLE OF INVENTION: PRODUCTIO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESSEE: CARELLA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM: MEDIUM TYPE: 3.5 INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MOLECULE TYPE:
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LENGTH: 358 amino acid
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TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: PCT/US94/09234
FILING DATE: 16 AUG 1994
ATTORNEY_RGENT INFORMATION:
NAME: MULLINS, J.G.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION DATA:
COMPUTER READABLE FORM:
                                                                                                            CORRESPONDENCE ADDRESS:
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                                                                                                                              NUMBER OF SEQUENCES:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRANDEDNESS
TOPOLOGY: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NAME: MULLINS, J.G.
REGISTRATION NUMBER: 33,073
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: US/08/458,970A FILING DATE: June 2, 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OPERATING SYSTEM: MS-DOS
SOFTWARE: WORD PERFECT 5.1
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                            COUNTRY:
                                                STATE:
                                                         CITY: Washington
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1233 20th Street,
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                                                                            CANTOR, MUELLER & PLAYER Street, N.W., Suite 300
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Pred. No. 0.043;
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US-08-148-209A-4
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TELEX: 440706
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
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APPLICATION NUMBER: JP 101
FILING DATE: 21-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 027
FILING DATE: 17-FEB-1993
ATTORNEY/AGENT INFORMATION:
                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/148,209A
FILING DATE: 05-NOV-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOCTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Mueller, Douglas P.
REGISTRATION NUMBER: 30,300
REFERENCE/DOCKET NUMBER: P-8700-23781
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                             NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                  APPLICANT: Dzau, Victor J
APPLICANT: Mukoyama, Masashi
TITLE OF INVENTION: TYPE-2 ANGIOTENSIN II RECEPTOR AND GENE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
LENGTH: 359 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PRIOR APPLICATION DATA:
ATTORNEY/AGENT INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: JP 01 FILING DATE: 07-APR-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/0 FILING DATE: 31-MAR-1993
                                                                                                                                                                                   COUNTRY: USA
ZIP: 94111-4187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CLASSIFICATION:
                   CLASSIFICATION:
                                                                                                                                                                                                                        STATE:
                                                                                                                                                                                                                                           CITY: San Francisco
                                                                                                                                                                                                                                                          STREET:
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E: Placental
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Pred. No. 0.044;
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US-08-417-122-6
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Patent No. 559588
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Best Local Similarity
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TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 4:
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                                                                                                                                                                 APPLICATION NUMBER: JP 101
FILING DATE: 21-APR-1992
PRIOR APPLICATION DATA: APPLICATION NUMBER: JP 027
FILING DATE: 17-FEB-1993
ATTORNEY/AGENT INFORMATION:
NAME: Mueller, Douglas P.
                                                                                                                                                                                                                                                                                        CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/
FILING DATE: 31-MAR-1993
APPLICATION NUMBER: JP 085
FILING DATE: 07-APR-1992
PRIOR APPLICATION DATA:
ADDITICATION DATA:
                                  NFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: 1: OCCURE TO NO:

"ACTERISTICS:
359 amino acids
sTRANDEDNESS: sin-
TOPOLOGY: 1:
OLECULE TOPOLOGY: 1:
                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: PatentIn Release #1.0, CURRENT APPLICATION DATA: APPLICATION UNBER: US/08/417,122 FILING DATE: 05-APR-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE CHARACTERISTICS:
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REFERENCE/DOCKET NUMBER: A-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
                                                                                        NAME: Mueller, Douglas P.
REGISTRATION NUMBER: 30,300
REFERENCE/DOCKET NUMBER: P-8700-23781
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-0400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: KURODA, Shun'ichi
APPLICANT: KONISHI, Hiroaki
TITLE OF INVENTION: ANGIOTEM
TITLE OF INVENTION: PRODUCTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER READABLE FORM:
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CORRESPONDENCE ADDRESS:
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                     SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER: IBM PC
OPERATING SYSTEM:
                                                       TELEPHONE: (202) 835-0605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COUNTRY: U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             STREET: 1233 20th
CITY: Washington
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359 amino acids
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Floppy disk
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                                                                    Matches
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Best Local Similarity
Matches 10; Conserv
                                                                   Best Local Similarity
Matches 8; Conserv
                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/532,818
FILING DATE: 03-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S. 08/143,364
FILING DATE: 29-0CT-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S. 08/051,741
APPLICATION NUMBER: U.S. 08/051,741
FILING DATE: 23-APR-1993
                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER: 04: INFORMATION FOR SEQ ID NO: 104:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZIP: 20007
COMPUTER READBLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                    APPLICATION NUMBER: U.S. 08, FILING DATE: 23-APR-1993
ATTORNEY/AGENT INFORMATION: NAME: ISACSON, JOhn P. REGISTRATION NUMBER: 33,751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: EVANS, Herbert J.
APPLICANT: KINI, R. Manjunatha
TITLE OF INVENTION: Polypeptides That Include Conformation-
TITLE OF INVENTION: Constraining Groups Which Flank A Protein-Protein Interacti
TITLE OF INVENTION: Site
NUMBER OF SEQUENCES: 153
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/08/934,222 FILING DATE: 19-SEPT-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET: Suite 500
CITY: Washington
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: amino acid
STRANDEDNESS: sir
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                     2 DGIKRIQDD 10
                                                                                                                                                                                       ENGTH:
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1 DPIKRIQDD 9
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                                                                                                                                                                                       13 amino acids
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Suite 500, 3000 K Street NW
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                                                                   Conservative
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88.9%;
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                                                                                   Score 39; I
Pred. No. 0.
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Pred. No. 0.044;
                                                                   Mismatches
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                                                                                                     DB 2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME: ISACSON, JOHN P.
REGISTRATION NUMBER: 33,751
REFERENCE/DOCKET NUMBER: 0404
INFORMATION FOR SEQ ID NO: 104:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino """
                                                                                                                                                                                                                                                                     Sequence 104, Application US/09207621 Patent No. 5952465
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: 08/532
FILING DATE: 03-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S. 0
FILING DATE: 29-OCT-1993
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                         CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: Suite 500, 3000 K Street NW
                                                                                                                                                                APPLICANT: EVANS, Herbert J.

APPLICANT: KINI, R. Manjunatha
TITLE OF INVENTION: Polypeptides That Include Conformation-
TITLE OF INVENTION: Constraining Groups Which Flank A Proten-Protein Interaction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDIUM TYPE: Floppy disk
COMPOTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
ADDITION NUMBER: US/OS/OS/AD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: EVANS, Herbert J.
APPLICANT: KINI, R. Manjunatha
TITLE OF INVENTION: Polypeptides That Include Conformation-
TITLE OF INVENTION: Constraining Groups Which Flank A Protein-Protein Interaction
TITLE OF INVENTION: Site
COMPUTER READABLE FORM:
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FILING DATE: 19-SEPT
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
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ADDRESSEE: Foley & L
                                                                                                                                                    NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STATE: I
                                                       CITY: Washington
STATE: DC
                                     COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: U.S. 08/051,741 FILING DATE: 23-APR-1993
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Suite 500, 3000 K Street NW
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US-08-532-818-104
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Best Local S
Matches 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Patent No.
          APPLICATION NUMBER: US/08/532,818
FILING DATE: 03-MAY-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US94/04294
FILING DATE: 21-APR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S. 08/143,364
FILING DATE: 29-OCT-1993
PRIOR APPLICATION NUMBER: U.S. 08/051,741
APPLICATION NUMBER: U.S. 08/051,741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER: 04
INFORMATION FOR SEQ ID NO: 104:
                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: EVANS, Herbert J.
APPLICANT: KINI, R. Manjunatha
TITLE OF INVENTION: Polypeptides That Include Conformation-
TITLE OF INVENTION: Constraining Groups Which Flank A Protein-Protein Interacti
TITLE OF INVENTION: Site
NUMBER OF SEQUENCES: 153
CORRESPONDENCE SITES
TOTAL OF SEQUENCES: 153
CORRESPONDENCE STATES TARGET
                                                                                                                                                                                                         COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
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LENGTH: 13 amino acids
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APPLICATION NUMBER: 08/532,818
FILING DATE: 03-MAY-1996
APPLICATION NUMBER: PCT/US94/04294
                                                                                                                                                                                                                                                                                                                                        COUNTRY: U
ZIP: 20007
                                                                                                                                                                                                                                                                                                                                                                                           STREET: Suite 500
CITY: Washington
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nes 8; Conser
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o. 5965698
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Suite 500, 3000 K Street NW
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29-OCT-1993
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23-APR-1993
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88.9%;
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0.28;
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RESULT 10
US-09-231-797-104
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                              Matches
                                                         Query Match
                                                                                                                                                                                                       PRICATION NUMBER: 05/09/231/9/
FILING DATE: 03-MAY-1996
APPLICATION NUMBER: PCT/US94/04294
FILING DATE: 03-MAY-1996
APPLICATION NUMBER: PCT/US94/04294
FILING DATE: 21-APR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S. 08/143,364
FILING DATE: 29-OCT-1993
PRIOR APPLICATION NUMBER: U.S. 08/143,741
FILING DATE: 23-APR-1993
APTORNEY/AGENT INFORMATION:
NAME: ISACSON, JOhn P.
NAME: ISACSON, JOhn P.
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Best Local
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REFERENCE/DOCKET NUMBER: 04
INFORMATION FOR SEQ ID NO: 104:
                                                                                                                                              REFERENCE/DOCKET NUMBER: 04
INFORMATION FOR SEQ ID NO: 104:
SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
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MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
TOPOLOGY: linear
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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Local Similarity 88.9%;
nes 8; Conservation
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nes 8; Conserv
                                                                                                                                                                                            NAME: Isacson, John P. REGISTRATION NUMBER: 3
                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER:
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                                                                                                                                LENGTH:
                                                                                                       TOPOLOGY:
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 2 DGIKRIQDD 10
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)GY: linear
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Suite 500, 3000 K Street NW
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                              Conservative
                                            75.0%;
88.9%;
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                                            Score 39; I
Pred. No. 0.
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Pred. No. 0.28;
                              Mismatches
                                                         DB 3;
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US-08-934-224-104
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                                                      Sequence 104, Application US/08933843
Patent No. 6111069
GENERAL INFORMATION:
APPLICANT: EVANS, Herbert J.
APPLICANT: KINI, R. Manjunatha
TITLE OF INVENTION: Polypeptides That Include Conformation-
TITLE OF INVENTION: Constraining Groups Which Flank A Protein-Protein Interacti
TITLE OF INVENTION: Site
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                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/532
APPLICATION NUMBER: 08/532
APPLICATION NUMBER: PCT/US:
PILING DATE: 03-MAX-1996
APPLICATION NUMBER: PCT/US:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S. 01
ETILING DATE: 29-0CT-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S. 01
APPLICATION NUMBER: U.S. 01
ETILING DATE: 23-APR-1993
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/934,224
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TITLE OF INVENTION:
                  NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
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ATTORNEY/AGENT INFORMATION:
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nes 8; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZIP: 20007
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ADDRESSEE:
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Suite 500, 3000 K Street NW
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Constraining Groups Which Flank A Protein-Protein Interacti
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88.9%;
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Pred. No. 0.28;
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RESULT 13
US-08-934-223-104
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                  GENERAL INFORMATION:
APPLICANT: EVANS, Herbert J.
APPLICANT: KINI, R. Manjunatha
TITLE OF INVENTION: Polypeptides That Include Conformation-
TITLE OF INVENTION: Constraining Groups Which Flank A Protein-Protein Interaction
TITLE OF INVENTION: Site
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INFORMATION FOR SEQ ID NO: 104:
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CORRENT APPLICATION DATA:
CORRENT APPLICATION DATA:
CORRENT APPLICATION UNIMERS. UT-006.033.843
                                PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08
FILING DATE: 03-MAY-1996
                                                                                                                              SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
                                                                                                                                                               COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
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FILING DATE: 23-APR-1993
ATTORNEY_AGENT INFORMATION:
NAME: ISACSON, John P.
REGISTRATION NUMBER: 33,751
PREFERENCY NUMBER: 34,751
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MEDIUM TYPE: Floppy
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nes 8; Conserv
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APPLICATION NUMBER: FILING DATE: 21-APF
                                                                                            FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TYPE: amino acid
                                                                                                             APPLICATION NUMBER:
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Suite 500, 3000 K Street NW
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          75.0%;
88.9%;
                   PCT/US94/04294
                                                     US/08/532,818
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                                                                                                             US/08/934,223
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0.28;
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US-09-413-492-104
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Patent No. 6258550

GENERAL INFORMATION:
APPLICANT: EVANS, Herbert J.
APPLICANT: KINI, R. Manjunatha
TITLE OF INVENTION: Polypeptides That Include Conformation-
TITLE OF INVENTION: Constraining Groups Which Flank A Protein-Protein Interacti
TITLE OF INVENTION: Site

NUMBER OF SEQUENCES: 153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: ISACSON, JOHN P.
REGISTRATION NUMBER: 33,751
REFERENCE/DOCKET NUMBER: 04
INFORMATION FOR SEQ ID NO: 104:
                                                                        REFERENCE/DOCKET NUMBER: 04: INFORMATION FOR SEQ ID NO: 104:
                                                                                                                                                                             PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S.
FILTUR TARRET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 20007
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S.
FILING DATE: 29-OCT-1993
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                   COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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LENGTH: 13 amino acids
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                                   SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
                                                                                                                                               ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                            APPLICATION NUMBER: PCT/US94/04294 FILING DATE: 21-APR-1994 PRIOR APPLICATION DATA: APPLICATION NUMBER: U.S. 08/143,36
                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/532,818
FILING DATE: 03-MAY-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                  FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY: UZIP: 20007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STREET: Suite 500
CITY: Washington
                                                                                                            NAME: Isacson, John P. REGISTRATION NUMBER: 33,751
                                                                                                                                                                           FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity es 8; Conserv
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TOPOLOGY:
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                   amino acid
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Suite 500, 3000 K Street
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                                                                                              040433/0148
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MEDIUM TYPE: DISSELVE
COMPUTER: IBM COMPATIBLE
OPERATING SYSTEM: Windows 95
SOFTWARE: FastSEQ for Windows Version 2.0b
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/946,329A
FILING DATE: 07-OCT-1997
PRIOR APPLICATION NUMBER: 60,/61,323
FILING DATE: 07-OCT-1996
APPLICATION NUMBER: 60,729,743
FILING DATE: 07-OCT-1996
APPLICATION NUMBER: 08/567,357
FILING DATE: 10-JUL-1996
APPLICATION NUMBER: 08/567,357
FILING DATE: 04-DEC-1995
APPLICATION NUMBER: 08/349,498
FILING DATE: 02-DEC-1994
AFTORNEY/AGENT INFORMATION:
RESISTRATION NUMBER: 08/349,498
FILING DATE: 02-DEC-1994
AFTORNEY/AGENT INFORMATION:
TELEPHONE: Haile, Lisa A.
REGISTRATION NUMBER: 08/349,498
FILING DATE: 02-DEC-1994
AFTORNEY/AGENT INFORMATION:
TELEPHONE: 619/678-5070
TELEPHONE: 619/678-5070
TELEFAX: 619/678-5099
INFORMATION FOR SEQ ID NO: 52:
SEQUENCE CHARACTERISTICS:
LENGTH: 143 amino acids
TYPE: amino acids
TYPE: amino acids
TYPE: peptide
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Search completed: November 12, 2002, 16:18:13 Job time : 16 secs
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Patent No. 6057091
GENERAL INFORMATION:
APPLICANT: Beachy, Philip A.
APPLICANT: Porter, Jeffrey A.
TITLE OF INVENTION: NOVEL HEDGEHOG-DERIVED POLYPEPTIDES
NUMBER OF SEQUENCES: 109
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 4225 Executive Square, Suite 1400
                                                                                                                                                                  Query Match
Best Local Similarity
Matches 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 75.0
Best Local Similarity 88.9
Matches 8; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET: 4225 Executive
CITY: La JOlla
STATE: CA
COUNTRY: USA
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
                                                                                  1 EDGIKRIQD 9
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11 EDGIKMIKD 19
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1 DPIKRIQDD 9
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77.88;
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Pred. No. 14;
1; Mismatches 1; Indels
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 2000000000
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Perfect score:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Database
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       Published_Applications_AA:*

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11: /cgn2_6/ptodata/1/pubpaa/Us
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52
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14.419 Million cell updates/sec
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Copyright (c) 1993 - 2002 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Query Match Length	DB	ID	Description
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N	52	100.0	359	10	US-09-966-871-81	81
ω	52	100.0	359	12	US-10-039-645-81	Sequence 81, Appl
4	36	69.2	145	10	US-09-867-550-66	66,
ភ	36	69.2	417	ڡ	US-09-879-959-2	2, Ap
6	35	67.3	71	10	US-09-815-242-4926	
7	35	67.3	75	10	US-09-815-242-10918	Sequence 10918, A
8	35	67.3	352	10	US-09-925-299-963	Sequence 963, App
9	35		1884	10	US-09-785-770A-17	17, A
10	35	67.3	1907	10	US-09-785-770A-16	Sequence 16, Appl
11	33		232	9	US-09-792-251-8	Sequence 8, Appli
12	32	61.5	179	10	US-09-815-242-12256	Sequence 12256, A
13	32	61.5	388	10	US-09-815-242-5250	Sequence 5250, Ap
14	32	61.5	559	10	US-09-815-242-11904	Sequence 11904, A
15	32	61.5	652	10	US-09-813-742-5	Sequence 5, Appli
16	32	61.5	773	9	US-09-808-602-60	Sequence 60, Appl
17	32	61.5	850	ဖ	US-09-808-602-58	Sequence 58, Appl
18	32	61.5	879	9	US-10-108-605-217	Sequence 217, App
19	32	61.5	983	9	US-09-808-602-73	Sequence 73, Appl

RESULT 2 US-09-966-871-8 ; Sequence 81, ; Patent NO. US ; GENERAL INFOR ; APPLICANT: F ; TITLE OF INI ; TITLE OF INI ; FILE REFEREN	Query M Best Lo Matches Qy 1	RESULT 1 US-09-867-56; Sequence 9 Patent No. GENERAL IN: APPLICANT ITILE REFE: CURRENT N CURRENT N CURRENT FILE PRIOR APP. PRIOR APP. PRIOR APP. PRIOR APP. PRIOR APP. PRIOR FIL. PRIOR APP. PRIOR FIL. VOUREER OF SOFTWARE: SEQ ID NO. IT PE: PR ORGANISM US-09-867-56		
5-871-81 De 81, App No. US200 INFORMAT ANT: KOPI OF INVENT REFERENCE:	16 16 16 16 16 16 16 16 16 16 16 16 16 1	*1159-9 867-569-9 867-569-9 ence 9, Application US/0 nt No. US20010036650A1 FRAL INFORMATION: LICANT: Li et al. LICANTION: C5a Rec. EREMT FILING DATE: PF130D1C1 REPHICATION NUMBER: 0010-000 APPLICATION NUMBER: 007 COR APPLICATION NUMBER: POOR APPLICATION NUMBER: 007 COR FILING DATE: 1995-06-000 APPLICATION NUMBER: 007 COR FILING DATE: 1995-06-000 APPLICATION NUMBER: 007 COR FILING DATE: 1995-08-000 APPLICATION NUMBER: 007 COR FILING DATE: 1995-08-09-09-000 APPLICATION NUMBER: 007 COR FILING DATE: 1995-08-09-09-000 APPLICATION NUMBER: 007 COR FILING DATE: 1995-08-09-09-000 APPLICATION NUMBER: 007 COR FILING DATE: 1995-08-09-09-09-09-09-09-09-09-09-09-09-09-09-		33333333333333333333333333333333333333
licati 201275 ION: ION: Ala ION: A	Similarity); Conserva [KRIQDD 10 	Jication 101003665 ATION: et al. VITION: C5 2: PF130D 3 DATE: 1 DATE: 1 ON NUMB DATE: 199 DATE:		507.77 507.77 507.77 507.77 507.77 507.77 507.77 507.77 507.77 507.77 507.77 507.77 507.77 507.77 507.77
on US/ 39A1 in S. issays Altera Altera	100 100 tive	ion US/09867569 6650A1 C5a Receptor 30D1C1 NUMBER: US/09/ NUMBER: 09/082,5 1998-05-21 1998-05-21 1998-06-02 1995-06-02 1995-06-02 1995-06-02 1995-06-03 1994-08-16 1994-08-16 1994-08-16 1994-08-16 1994-08-16 1994-08-16 1994-08-16 1994-08-16 1994-08-16 1994-08-16 1994-08-16 1994-08-16		111144 201092 211092 211092 211092 311092 311092 311092 311093 311092 31092 3100 3100 3100 3100 3100 3100 3100 310
09 ti	. 0 %	986 US 05- 9/0 21 8/4 02 3.0		100
966871 r Identifying Receptors ons in Signaling	Score 52; DB 10; Pred. No. 0.012; 0; Mismatches 0;	7569 or 	ALIGNMENTS	US-09-867-852-108 US-09-813-742-3 US-09-815-242-19903 US-09-815-242-12913 US-09-815-242-12913 US-09-867-550-60 US-09-780-717-35 US-09-780-717-35 US-09-780-717-35 US-09-815-242-10958 US-09-815-242-10958 US-09-864-761-4707 US-09-864-761-4707 US-09-864-761-4707 US-09-865-750-9786 US-09-864-761-45962 US-09-815-242-13687 US-09-815-242-13687 US-09-815-242-13622 US-09-935-390A-29 US-09-935-390A-29 US-09-935-390A-29 US-09-919-172-51 US-09-915-72-51
s Having	Length 359; Indels 0; Gaps 0;		ا الورا	Sequence 108, Appli Sequence 19903, A Sequence 19913, A Sequence 60, Appl Sequence 32, Appl Sequence 35, Appl Sequence 10958, A Sequence 17, Appl Sequence 17, Appl Sequence 18, Appl Sequence 186, Ap Sequence 186, Ap Sequence 186, Ap Sequence 1867, A Sequence 13687, A Sequence 13687, A Sequence 13628, A Sequence 13629, A Sequence 13621, A Sequence 13622, A Sequence 13622, A Sequence 39, Appl Sequence 39, Appl Sequence 39, Appl Sequence 39, Appl Sequence 31, Appl Sequence 31, Appl Sequence 31, Appl Sequence 31, Appl Sequence 51, Appl Sequence 51, Appl Sequence 51, Appl Sequence 51, Appl Sequence 51, Appl Sequence 51, Appl

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                                                                                                                                                                                                                                                                                        US-09-867-550-66; Sequence 66, Apr. Patent No. US20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; LENGTH: 359
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-039-645-81
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; Sequence 81, Application US/10039645
; Patent No. US20020147170A1
                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
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LENGTH: 359
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                                APPLICANT: Topper, James
TITLE OF INVENTION: No. US20020082206A1el Polynucleotides from Atherogenic Cells and
TITLE OF INVENTION: Thereby
FILE REFERENCE: 21402-013 (Cura-313)
CURRENT APPLICATION NUMBER: US/09/867,550
CURRENT FILING DATE: 2001-09-20
PRIOR APPLICATION NUMBER: USSN 60/208,427
PRIOR APPLICATION NUMBER: USSN 60/208,427
PRIOR FILING DATE: 2000-05-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION NUMBER: US 60/243,550 PRIOR FILING DATE: 2000-10-26 NUMBER OF SEQ ID NOS: 87 SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION NUMBER: US/10/039,645
CURRENT FILING DATE: 2001-10-25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Beinborn, Martin TITLE OF INVENTION: Constitutively Active, Hypersensitive, TITLE OF INVENTION: and No. US20020147170Alfunctional Receptors as No. US20020147170 FILE REFERENCE: 00398/510002
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PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: US 60/288,644
PRIOR FILING DATE: 2001-05-03
NUMBER OF SEQ ID NOS: 87
                                                                                                                                                                                                            APPLICANT: Leach,
APPLICANT: Mehral
APPLICANT: Conley
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CURRENT FILING DATE: 2001-09-28
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  SOFTWARE:
                    NUMBER OF SEQ ID NOS: 2125
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TYPE: PRT
ORGANISM: Homo sapiens
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nes 10; Conserv
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les 10; Conserv
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FastSEQ for Windows Version 4.0
                                                                                                                                                                                          Law, Debbie
                                                                                                                                                                                                              Mehraban, Fuad
Conley, Pamela
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aban, Fuad,
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Pred. No. 0.012;
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; ORGANISM: Streptococcus equisimilis US-09-879-959-2
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US-09-879-959-2
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Best Local Similarity
"hes 8; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-815-242-4926
CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
                                                                                                                                                                                                                                                                                                                                                                 Sequence 4926, Application US/09815242 Patent No. US20020061569A1 GENERAL INFORMATION:
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SEQ ID NO 2
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LENGTH: 145
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CURRENT FILING DATE: 2001-09-12
PRIOR APPLICATION NUMBER: 09/469,200
PRIOR FILING DATE: 1999-12-21
PRIOR APPLICATION NUMBER: 09/178,851
PRIOR FILING DATE: 1998-10-26
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APPLICANT: Kumari, Kshama
APPLICANT: Leangelis, Paul
APPLICANT: DeAngelis, Paul
TITLE OF INVENTION: STREPTOCOCCUS EQUISIMILIS HYALURONAN SYNTHASE GENE AND EXPRESS
TITLE OF INVENTION: IN BACILLUS SUBTILIS
FILE REFERENCE: 3554.049
                                                                                                                                                                                                                                                                                                                               APPLICANT: Haselbeck, Robert APPLICANT: Ohlsen, Kari L.
                                                                                                                                                    TITLE OF INVENTION: Identification of Essential Genes
TITLE OF INVENTION: Prokaryotes
FILE REFERENCE: ELITRA.011A
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Yamamoto, Robert T.
Xu, H. Howard
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77.8%;
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80.0%;
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Pred. No. 14;
1; Mismatches
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                                                                    Query Match
Best Local S
Matches 6
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                                                                                                                                                            SEQ ID NO 10918
LENGTH: 75
TYPE: PRT
ORGANISM: Enterococcus faecalis
                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Xu. H. Howard
TITLE OF INVENTION: Identification of Essential Genes in
TITLE OF INVENTION: Prokaryotes
FILE REFERENCE: ELITRA.011A
CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR PILING DATE: 2000-05-23
PRIOR PILING DATE: 2000-05-23
PRIOR FILING DATE: 2000-05-23
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APPLICANT:
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NUMBER OF SEQ ID NOS: 14110
SOFTWARE: FastSEQ for Windows Version 4.0
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PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/242,578
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56
                                  1 EDGIKRIQD 9
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APPLICATION NUMBER: 60/
FILING DATE: 2000-12-22
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APPLICATION NUMBER: 60/253,625
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EDGIQTVQD 64
                                                                      Similarity 6; Conser
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Zyskind, Judith W.
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                                                                      Conservative
                                                                                     67.3%;
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                                                                    pred. No. 3.3;
Mismatches
                                                                                     DB 10;
3.3;
                                                                                                      Length 75;
                                                                      0
                                                                    Gaps
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RESULT 10 US-09-785-770A-16 ; Sequence 16, Application US/09785770A ; Patent No. US20020103360A1

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Query Match
Best Local Similarity
"~+~hes 5; Conserv?
В
                                                                                                                                                        : LENGTH: 1884
: TYPE: PRT
: ORGANISM: Homo sapiens
US-09-785-770A-17
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US-09-925-299-963
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APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
FILE REFERENCE: PA102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 963
LENGTH: 352
TYPE: PRT
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SEQ ID NO 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
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Best Local :
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                                                                                                                                                                                                                                                                                                            APPLICANT: Barnes, Thomas M.

TITLE OF INVENTION: A NOVEL PROTEIN RELATED TO MELANOMA-INHIBITING PROTEIN TITLE OF INVENTION: AND USES THEREOF FILE REFERENCE: 07334-328001

GURRENT APPLICATION NUMBER: US/09/785,770A

CORRENT FILING DATE: 2001-02-16

PRIOR APPLICATION NUMBER: US 09/387,462

PRIOR FILING DATE: 1999-09-01

PRIOR APPLICATION NUMBER: US 09/145,056
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CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05883
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1556
                                                                                                                                                                                                                                                                         PRIOR FILING DATE: 1998-09-01 NUMBER OF SEQ ID NOS: 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Pan, Yang APPLICANT: Barnes,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURE:
1466 EDQVKKLEDD 1475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           142 EDQVKKLEDD 151
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                                    1 EDGIKRIQDD 10
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                                                                            Conservative
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50.0%;
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50.0%;
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Pred. No. 1.1e
4; Mismatches
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                                                                                            ; DB 10;
. 1.1e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10; Length 352;
                                                                                                                 Length 1884;
                                                                         Indels
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                                                                         0;
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                                                                       Gaps
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                                                                         0
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US-09-815-242-10918

Sequence 10918, Application US/09815242 Patent No. US20020061569A1

Query Match
Best Local Similarity
"hes 6; Conserv:

Conservative

2;

67.3%; 66.7%;

Score 35; Pred. No. Mismatches

DB 10;

Length 71;

Indels

0;

Gaps

0

; TYPE: PRT ; ORGANISM: Enterococcus faecalis US-09-815-242-4926

NUMBER OF SEQ ID NOS: 14110 SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 4926 LENGTH: 71

PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR TILING DATE: 2000-12-2
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16

APPLICATION NUMBER: 60/242,578

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US-09-815-242-12256

; Sequence 12256, Application US/09815242

; Patent No. US20020061569A1
                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
"hes 6; Conserv?
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                                                                                                                                                                                                                                                                                                                                                                                                                                     ; TYPE: PRT ; ORGANISM: Bacillus subtilis US-09-792-251-8
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                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE: PatentIn Ver. 4.0
SEQ ID NO 16
LENGTH: 1907
TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 8
LENGTH: 232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 8, Application US/09792251
Patent No. US20020160364A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity
Matches 5; Conserv
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APPLICANT: Pan, Yang
APPLICANT: Barnes,
                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: GUZMAN, LUZ-MARÍA
TITLE OF INVENTION: USE OF YACM AND YQEJ, ESSENTIAL BACTERIAL GENES AND POLYPEPTIDES
TITLE OF INVENTION: AND THEIR USE
FILE REFERENCE: 06286-140001
CURRENT APPLICATION NUMBER: US/09/792,251
CURRENT FILING DATE: 2001-02-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                            APPLICANT: Haselbeck, Robert APPLICANT: Ohlsen, Kari L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/09/785,770A
CURRENT FILING DATE: 2001-02-16
PRIOR APPLICATION NUMBER: US 09/387,462
PRIOR FILING DATE: 1999-09-01
   TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Fritz, Christian
APPLICANT: Youngman, Phili
APPLICANT: Guzman, Luz-Mar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION NUMBER: US 09/145,056
PRIOR FILING DATE: 1998-09-01
NUMBER OF SEQ ID NOS: 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Barnes, Thomas M.
TITLE OF INVENTION: A NOVEL PROTEIN RELATED TO MELANOMA-INHIBITING PROTEIN
TITLE OF INVENTION: AND USES THEREOF
FILE REFERENCE: 07334-328001
                      APPLICANT:
                                       APPLICANT:
                                                         APPLICANT:
                                                                          APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1489 EDQVKKLEDD 1498
                                                                                                                                                                                                                                                                                          135 KDTIKRVQD 143
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                                   Trawick, John D. Carr, Grant J. Yamamoto, Robert T.
                                                                                                        Ohlsen, Kari L.
Zyskind, Judith W.
                                                                                         Wall, Daniel
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                                                                                                                                                                                                                                                                                                                                                                 Conservative
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                      H. Howard
Identification of Essential Genes in
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50.0%;
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Pred. No. 1.1e+02;
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                                                                                                                                                                                                                                                                                                                                                                            DB
27;
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                                                                                                                                                                                                                                                                                                                                                                                              Length 232;
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US-09-815-242-5250
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                                                                                                                                       PRIOR APPLICATION NUMBER: 60/191,078
PRIOR APPLICATION NUMBER: 60/291,848
PRIOR APPLICATION NUMBER: 60/296,848
PRIOR APPLICATION NUMBER: 60/297,727
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2011-02-16
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CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR FILING DATE: 2000-10-23
                                               SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 5250
LENGTH: 388
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 5250, Application US/09815242 Patent No. US20020061569A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Xu, H. Howard
TITLE OF INVENTION: Identification
TITLE OF INVENTION: Prokaryotes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Haselbeck, Robert
                                                                                                                           NUMBER OF SEQ ID NOS: 14110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
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PRIOR FILING DATE: 2000-12-2
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILE REFERENCE: ELITRA.011A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQ ID NOS: 14110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION:
ORGANISM: Staphylococcus aureus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  75 DDEIKRIED 83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity 66.7 es 6; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Carr, Grant J.
Yamamoto, Robert T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Wall, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ohlsen, Kari L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Trawick, John D.
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66.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 32; DB Pred. No. 31; 2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           of Essential Genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10; Length 179;
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US-09-813-742-5
US-09-813-742-5
; Sequence 5, Application US/09813742
; Patent No. US20020004944A1
; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-815-242-11904
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US-09-815-242-11904
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION NUMBER: 60/297, 727
PRIOR APPLICATION NUMBER: 60/206, 848
PRIOR FILLING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207, 727
PRIOR APPLICATION NUMBER: 60/207, 727
PRIOR FILLING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILLING DATE: 2000-10-23
PRIOR FILLING DATE: 2000-11-27
PRIOR FILLING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR APPLICATION NUMBER: 60/259,308
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILLING DATE: 2001-10-216
                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
Matches 5; Conserv
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SEQ ID NO 11904
LENGTH: 559
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APPLICANT: Baker, Barbara
APPLICANT: Baker, Barbara
APPLICANT: Dinesh Kumar, S.P.
APPLICANT: Dinesh Kumar, S.P.
TITLE OF INENTION: NON-PATHOGEN INDUCED SYSTEMIC ACQUIRED RESISTANCE (SAR) IN PLANTS FILE REFERENCE: 042250/209601 (5830-12)
CURRENT FILING DATE: US/09/813,742
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191,027
PRIOR APPLICATION NUMBER: 60/191,027
PRIOR FILING DATE: 2000-03-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 11904, Application US/09815242 Patent No. US20020061569A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Xu, H. Howard
TITLE OF INVENTION: Identification of Essential Genes in
TITLE OF INVENTION: Prokaryotes
FILE REFERENCE: ELITAR.011A
CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
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                                                                                                                                                                                                                                                                                                                          432 GIKQLEDD 439
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Zyskind, Judith W.
Wall, Daniel
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                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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66.7%;
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                                                                                                                                                                                                                                                                                                                                                                                                           Score 32; DB 10;
Pred. No. 1.1e+02;
3; Mismatches 0;
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Search completed: November 12, 2002, 16:18:29
Job time: 10 secs

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Maximum DB seq length: 2000000000
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARI

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AAU78656	AAU78655	AAU78654	AA020951	AAB02850	AAB02849	AAB02848	AAB02844	AAR44531	AAR72230	ID	
Human Angiotensin	Human Angiotensin	Human Angiotensin	. Protein of the ang	Human G protein co	Human angiotensin	Epitope of rat vas	Description				

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ABB42772	AAR10799	AAP80584	AAW79372	AAP90045	AA000374	ABB03869	AAU65100	AAR06749	S	AAR10798	AAP81075	AAY31623	AAR10797	ABB83841	AAR10796	AAR42185	ABG60819	AAM97593	AAY81924	AAG99274	AAG99270	AAM46449	AAM46069	AAM46064	AAM46059	AAR11604	ABB65787	AAR49579	ABB60875	540	AAW26782	AAG11661	AAR67111	AAB02851
-	rf	Human SAP(Phe) pep	Staphylococcus aur	Human pulmonary su	Human polypeptide	Human musculoskele	Propionibacterium	Peptide #1 for det	Bovine metalloprot	Pulmonary surfacta	Sequence encoded b	\vdash			Pulmonary surfacta	ptic	3		Asparagine proteas	patatin	ato patatin pr	binding site	binding site	binding site	inding	alp	3			phila me	d vir	Arabidopsis thalia	íon	Human G protein co

ALIGNMENTS

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vasoconstriction e.g. for treating hypertension		Monoclonal antibody to AT1 angiotensin receptor - used for		WPI; 1995-147395/19.	Barker S, Vinson GP;		(QUEE-) QUEEN MARY & WESTFIELD COLLEGE.		27-SEP-1993; 93GB-0019877.		27-SED-1994: 94WO-CB02100		06-APR-1995.		WO9509186-A.		Synthetic.		detection; cancer diagnosis; sperm motility; contraception.	rat vascular smooth muscle; conserved; mammalian AT1 receptor;	Monoclonal antibody; AT1 receptor; subtype; Angiotenisin II receptor;		Epitope of rat vascular smooth muscle AT1 receptor (residues 8-17).	UI-DEC-1995 (IITST entry)		AAR72230;		AAR72230 standard; Peptide; 10 AA.	AAR72230	, with

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RESULT 2
AAR44531
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Best Local S
Matches 10
  Query Match
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21-APR-1992;
17-FEB-1993;
                    Sequence
                                                 Human Ang II type 1 receptor is useful for determining the bioactivity of angiotensin II type 1 receptor antagonists which are useful for treating hypertension. The Ang II type 1 receptor gene was derived from human placenta and is contained in plasmid
                                                                                                    Claim 2;
                                                                                                                        activity
                                                                                                                               Human angiotensin II type 1 receptor polypeptide - useful f
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      subtype of Angiotenisin II receptor) are claimed. The Abs specifically bind to amino acid residues 8 to 17 of the rat vascular smooth muscle ATI receptor. This sequence is conserved in all mammalian ATI receptors so far cloned. The Mabs can be used for detection of ATI receptors, e.g. in cancer diagnosis. They can also be used to study and measure sperm motility and can be used in
                                         pHARpl16.
                                                                                                                                                               N-PSDB;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Monoclonal antibodies (MADs) that bind to the AT1 receptor subtype of Angiotenisin II receptor) are claimed. The Abs
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10; Conser
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                                                                                                   Fig 1; 42pp;
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                     359
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92JP-0101393.
93JP-0027835.
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Pred. No.
  Score 10;
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 15;
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Length 359;
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RESULT 3
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28-MAY-1999;
28-MAY-1999;
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28-MAY-1999;
28-MAY-1999;
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12-MAR-1999;
12-MAR-1999;
The present invention describes transmembrane receptors, preferably human G protein coupled receptors (GPCR), for which the endogenous ligand is unknown (orphan GPCR receptors). More specifically the prinvention relates to non-endogenous, constitutively activated versof a human GPCR. These non-endogenous human GPCRs can be useful for
                                                                             Non-endogenous, human G protein-coupled receptors for screening receptor, inverse or partial agonists useful as therapeutic age
                                                                                                                                                                                                            03-SEP-1999;
29-SEP-1999;
                                                           Example 1;
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27-AUG-1999;
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12-MAR-1999;
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12-MAR-1999;
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identification; agonist; screening; therapeutic; pharmaceutical;
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12-NOV-1998;
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                                                         Page 129-130; 187pp;
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                                                                                                                                        CW,
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99US-0156633.
99US-0156555.
99US-0156634.
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98US-0109213
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Lowitz K, White
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20-NOV-1998;
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N-PSDB; AAA46082.
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Synthetic.
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identification; agonist; screening; therapeutic; pharmaceutical;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human G protein coupled receptor hAT1 F239K protein
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Non-endogenous, human G protein-coupled receptors for screening
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                                                                                                                                 ARENA PHARM INC.
                                                                                  Liaw CW, Lin I,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              359
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                   99US-0123949
99US-012436
99US-0136436
99US-0136437
99US-0136437
99US-0137127
99US-0137131
99US-0137131
99US-0141448
99US-01551114
99US-0155524
99US-0155555
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99US-0123946.
99US-0123948.
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99US-0123944.
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99US-0120416
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%;
                                                                                 Lowitz K, White C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           359
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Pred. No. 0.00086;
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                                                                                                    Chen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 359;
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                                                                                                  ₽,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ
                                                                                                Dang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ID NO:90
                                                                                                    HT;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                              28-MAY-1999;
28-MAY-1999;
28-MAY-1999;
28-MAY-1999;
30-JUN-1999;
27-AUG-1999;
03-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention describes transmembrane receptors, preferably human G protein coupled receptors (GPCR), for which the endogenous ligand is unknown (orphan GPCR receptors). More specifically the present invention relates to non-endogenous, constitutively activated versions of a human GPCR. These non-endogenous human GPCRs can be useful for the direct identification of candidate compounds as receptors agonists, inverse agonists or partial agonists for use as pharmaceutical agents. AAA46126 and AAA6126 and AAB02825 to AAB02899 represent sequences used in the compounds and the compounds as receptors agonists.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          the
                                29-SEP-1999;
29-SEP-1999;
                                                                                                                                                                                 28-MAY-1999;
28-MAY-1999;
                                                                                                                                                                                                                                                                                                  26-FEB-1999;
12-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                     20-NOV-1998;
27-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                    13-OCT-1998;
12-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mutant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; G protein identification;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        22-AUG-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAB02849 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
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                                                                                                                                                                                                                  12-MAR-1999;
12-MAR-1999;
                                                                                                                                                                                                                                                   12-MAR-1999;
12-MAR-1999;
                                                                                                                                                                                                                                                                                      12-MAR-1999;
                                                                                                                                                                                                                                                                                                                                      16-FEB-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20-APR-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200022131-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           receptor, inverse or partial agonists useful as therapeutic agents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         œ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <del>بــر</del>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EDGIKRIQDD 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EDGIKRIQDD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    G protein coupled receptor; GPCR; transmembrane receptor;
fication; agonist; screening; therapeutic; pharmaceutical;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         l Similarity
10; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           359
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                             990S 0123951.

990S 0136437.

990S 0136437.

990S 0136439.

990S 0137127.

990S 01377567.

990S 0141448.

990S 0155124.

990S 015653.

990S 0156555.
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99US-0123944.
99US-0123945.
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98US-0110060.
99US-0120416.
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98US-0108029.
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                 99US-0156634
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      coupled receptor hAT1 mutant protein SEQ ID NO:94.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%;
                                                                                                                                                                                                                                                     23948
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 10; DB 21;
Pred. No. 0.00086;
; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 359;
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RESULT 6
AAB02850
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                26-FEB-1999;
12-WAR-1999;
12-WAR-1999;
12-WAR-1999;
12-WAR-1999;
12-WAR-1999;
12-MAR-1999;
12-MAR-1999;
28-WAY-1999;
                                                                                                                        20-NOV-1998;
27-NOV-1998;
16-FEB-1999;
                                                                                                                                                        13-OCT-1998;
12-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                 AAB02850 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              of a human GPCR. These non-endogenous human GPCRs can be useful for the direct identification of candidate compounds as receptors agonists, inverse agonists or partial agonists for use as pharmaceutical agents. AAA46017 to AAA46126 and AAB02825 to AAB02859 represent sequences used the exemplification of the present invention.
                                                                                                                                                                                          13-OCT-1999;
                                                                                                                                                                                                                                    WO200022131-A2
                                                                                                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                        mutant
                                                                                                                                                                                                                                                                                                                                                                              AAB02850;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                               20-APR-2000
                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                Human G protein coupled receptor hAT1 mutant.protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Non-endogenous, human G protein-coupled rece
receptor, inverse or partial agonists useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gore
                                                                                                                                                                                                                                                                                                             Human;
                                                                                                                                                                                                                                                                                                                                                       22-AUG-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The present invention describes transmembrane receptors, preferably human G protein coupled receptors (GPCR), for which the endogenous ligand is unknown (orphan GPCR receptors). More specifically the present invention relates to non-endogenous, constitutively activated versions
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 2; Page 146-147; 187pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (AREN-) ARENA PHARM INC
                                                                                                                                                                                                                                                                                                  dentification; agonist; screening; therapeutic;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            359
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%; ilarity 100.0%; Conservative
                                                                                                                                                                                                                                                                                                                                                       (first entry)
980S-0110060.
990S-0120416.
990S-0123944.
990S-0123945.
990S-0123946.
990S-0123948.
990S-0123948.
990S-012394.
990S-012343.
990S-013437.
990S-0136437.
990S-0136437.
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                                                                                                                                              98US-0109213
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98US-0108029
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                                                                                                                                                                                                                                                                                                             coupled
                                                                                                                                                                                                                                                                                                                                                                                                  Protein; 359
                                                                                                                                                                                                                                                                                                             receptor; GPCR; transmembrane receptor;
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tz K, White C;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               . 0.00086;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         receptors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             as therapeutic age
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Chen
                                                                                                                                                                                                                                                                                                  pharmaceutical;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 359;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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RESULT 7
AAO20951
ID AAO2
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28-MAY-1999;
28-MAY-1999;
30-JUN-1999;
27-AUG-1999;
03-SEP-1999;
29-SEP-1999;
29-SEP-1999;
29-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention describes transmembrane receptors, preferably human G protein coupled receptors (GPCR), for which the endogenous ligand is unknown (orphan GPCR receptors). More specifically the presentinvention relates to non-endogenous, constitutively activated versions of a human GPCR. These non-endogenous human GPCRs can be useful for the direct identification of candidate compounds as receptors agonists, inverse agonists or partial agonists for use as pharmaceutical agents. AAA46017 to AAA46126 and AAB02825 to AAB02859 represent sequences used that the compounds is the compound of the comp
                                     O'Brien
                                                                                                                                                                                                                                                                                                                                       Cardiovascular; vasotropic; angiotensin II; aortic valve disease; angiotensin converting enzyme; aortic valve; aortic stenosis; ACE inhibiting agent; angiotensin II type 1 receptor antagonist; aortic sclerosis; AT-1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AA020951;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAO20951 standard; Protein;
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                                                                               (UNIW ) UNIV
                                                                                                                                                                    05-OCT-2001;
                                                                                                                                                                                                              11-APR-2002
                                                                                                                                                                                                                                                     WO200228421-A1
                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                              Protein of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11-JUL-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Non-endogenous, human G protein-coupled receptors for screening receptor, inverse or partial agonists useful as therapeutic age
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  N-PSDB; AAA46090.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2000-317986/27
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (AREN-) ARENA PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity hes 10; Conserv
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                                       KD,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                       Otto CM,
                                                                                 WASHINGTON
                                                                                                                                                                    2001WO-US31605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                          2000US-238367P
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99US-0137567
99US-0141448
99US-0151114
99US-0152524
99US-0156633
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                                       Probstfield
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                                                                                                                                                                                                                                                                                                                                                                                                                                              II type 1 (AT-1) receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0,
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Pred. No. 0.00086;
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WPI; 2002-372197/40.

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78654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a method for decreasing the amount and/or biological activity of angiotensin II in an aortic valve in an animal. This method comprises administering an angiotensin II inhibiting agent consisting of angiotensin converting enzyme (ACE) antagonists and angiotensin II type 1 receptor antagonists. The method is also useful to prevent progression and/or complications of aortic valve disease, such as aortic stenosis or aortic sclerosis. This sequence represents the protein of the angiotensin II type 1 (AT-1) receptor of the invention.
                          The invention relates to an isolated polynucleotide comprising a first nucleotide sequence which comprises a angiotensin receptor 1 (AGTR1) isogene selected from isogenes 1-8 and 10 given in the specification. Also included are methods of haplotyping/genotyping the AGTR1 gene of an individual, predicting a haplotype pair of an individual,
                                                                                                                                               Novel genetic variants of Angiotensin Receptor 1 isogenes, us improving efficiency and reliability in drug development for diseases associated with AGTR1 activity, e.g. hypertension \,\cdot\,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Disclosure; Page 36-37; 40pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Decreasing the amount and/or biological activity of angiotensin II in an aortic valve comprises administering angiotensin II inhibiting age consisting of antagonists of angiotensin converting enzyme and the
                                                                                                                        Claim
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       chromosome 3q21-q25; haplotype; genotype; drug screening.
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30-MAY-2001;
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 haplotype
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              dentifying an association between a trait and at least one haplotype
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DB; ABK47350, AE
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pair
                                                                                                                      Fig
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                                                                                                                                                                                                                                                                                                                       2000US-228542P.
2001US-0867915.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                     3; 44pp; English.
                                                                                                                                                                                                                                                           Koshy B,
 of AGTR1
                                                                                                                                                                                                                ABK47351.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       receptor; AGTR1; hypotensive; hypertension;
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gene, oligonucleotides and primers
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RESULT 9
AAU78655
ACC CONTRACT CONTRACT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CC storing and analysing polymorphism data for the AGTR1 gene and CC a genome anthology for AGTR1 bene the AGTR1 gene and CC for drugs targeting AGTR1 that are useful for treating hypertension. The CC methods are useful for improving the efficiency and reliability of CC diseases associated with AGTR1 activity. The methods are also useful for CC diseases associated with AGTR1 activity. The methods are also useful for CC diseases associated with AGTR1 activity. The antibody is useful in CC diagnostic, prognostic and therapeutic methods. The AGTR1 gene is useful in Studying the expression and function of AGTR1, and in expressing AGTR1 CC in studying the expression and function of AGTR1, and in expressing AGTR1 CC related to AGTR1 activity. The AGTR1 gene is also useful in studying the effect of the variation on the biological activity of AGTR1 as well as on the binding affinity of candidate drugs targeting AGTR1 for the treatment CC of hypertension. The recombinant organism is useful for studying the compression of AGTR1 isogenes in vivo, for in vivo screening and testing of drugs targeted against AGTR1 protein, and for testing the efficacy of the repeated against AGTR1 protein, and for testing the efficacy of the agents and compounds for treating hypertension in a compounds for treating hypertension in a compound of AGTR1 is located on chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAU78655
                                                                                                                   WPI; 2002-282840/33..
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30-MAY-2001;
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                                                                                                                                                                                                                                           (GENA-) GENAISSANCE PHARM INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3q21-q25;
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2001US-0867915
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers 204
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; haplotype; genotype; drug screening.
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Pred. No. 0.0
0; Mismatches
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                                                                                                                                                                             Lee
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Novel genetic variants of Angiotensin Receptor 1 isogenes, using proving efficiency and reliability in drug development for diseases associated with AGTR1 activity, e.g. hypertension

useful for or treating

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RESULT 10
AAU78656
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                                                                                                                                                                                                                                                                    Misc-difference
                                                                                                                                                                                                                                                                                                                                                                                                                                                             chromosome 3q21-q25; haplotype; genotype;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human Angiotensin receptor 1, AGTR1, variant #2.
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12-JUN-2001; 2001EP-0114230
                                                                            06-MAR-2002
                                                                                                                                                        EP1184456-A2
                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; angiotensin; receptor; AGTR1; hypotensive; hypertension;
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Pred. No. 0.00086;
Mismatches 0;
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XX E X E X E X X

22-AUG-2000 AAB02851;

(first entry)

AAB02851 standard; Protein; 360 AA

0;

Human; G protein coupled receptor; GPCR; transmembrane receptor; Human G protein coupled receptor hAT1 mutant protein SEQ ID NO:106.

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RESULT 11
AAB02851
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                                                                                                                                          Q
                                                                                                                                                                                                                                                                                    cc identifying an association between a trait and at least one haplotype or chaplotype pair of AGTR1 gene, oligonucleotides and primers for cc detecting polymorphisms in the AGTR1 gene, a recombinant non-human cc organism transformed or transfected with an AGTR1 gene, where the corganism transformed or transfected with an AGTR1 gene, where the polymorphic variant sequence, the polymorphic variant proteins of AGTR1. Cc an anti-AGTR1 protein monoclonal antibody, a computer system for cc storing and analysing polymorphism data for the AGTR1 gene and ca a genome anthology for AGTR1 gene. The polypeptide is useful in screening for drugs targeting AGTR1 that are useful for treating hypertension. The computer system for compounds are useful for improving the efficiency and reliability of several steps in the discovery and development of drugs for treating for several steps in the discovery and development of drugs for treating compounds targeting AGTR1. The antibody is useful in screening compounds targeting AGTR1. The antibody is useful for screening compounds targeting AGTR1. The antibody is useful in studying the expression and function of AGTR1, and in expressing AGTR1 created to AGTR1 activity. The AGTR1 gene is also useful in studying the captated to AGTR1 activity. The AGTR1 gene is also useful in studying the captated to AGTR1 is captated activity of AGTR1 as well as on the binding affinity of candidate drugs targeting AGTR1 for the treatment of hypertension of AGTR1 is portein, and for testing the efficacy of therapeutic agents and compounds for treating hypertension in a biological system. The gene for AGTR1 is located on chromosome.

Cc 3021-255. The present sequence is AGTR1 variant protein sequence.
                                                                                                                                                                                          Matches
                                                                                                                                                                                                           Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                of an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 30; Page -; 44pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel genetic variants of Angiotensin Receptor 1 isogenes, useful for improving efficiency and reliability in drug development for treating diseases associated with AGTR1 activity, e.g. hypertension \,
                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                     3q21-q25. The present sequence is AGTR1 variant protein sequence Note: The present sequence is not shown in the specification but was created by the indexer using the AGTR1 sequence appearing as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         isogene selected from isogenes 1-8 and 10 given in the specification. Also included are methods of haplotyping/genotyping the AGTR1 gene of an individual, predicting a haplotype pair of an individual,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 nucleotide sequence which comprises a angiotensin receptor 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to an isolated polynucleotide comprising a first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Anastasio AE, Koshy B,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GENA-) GENAISSANCE PHARM INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28-AUG-2000;
30-MAY-2001;
                                                                                                                                                                                                                                                                                                                               AAU78654 and the information in figure
                                                                                                œ
                                                                                                                                            1 EDGIKRIQDD 10
                                                                                                EDGIKRIQDD 17
                                                                                                                                                                                          10;
                                                                                                                                                                                                                                                                                    359 AA;
                                                                                                                                                                                          Conservative
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2001US-0867915.
                                                                                                                                                                                                             100.0%;
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                                                                                                                                                                                          0;
                                                                                                                                                                                                             Score 10; DB 23;
Pred. No. 0.00086;
                                                                                                                                                                                             Mismatches
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identification;

agonist; screening; therapeutic; pharmaceutical;

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RESULT 12
AAR67111
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Best Local S
Matches 10
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12 -MAR-1999
28 -MAY-1999
28 -MAY-1999
28 -MAY-1999
28 -MAY-1999
28 -MAY-1999
27 -AUG-1999
27 -AUG-1999
27 -AUG-1999
                                                                                                                                         The present invention describes transmembrane receptors, preferably human G protein coupled receptors (GPCR), for which the endogenous ligand is unknown (orphan GPCR receptors). More specifically the present invention relates to non-endogenous, constitutively activated versions of a human GPCR. These non-endogenous human GPCRs can be useful for the direct identification of candidate compounds as receptors agonists, inverse agonists or partial agonists for use as pharmaceutical agents. AAA46017 to AA46126 and AAB02825 to AAB02859 represent sequences used the exemplification of the present invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-NOV-1998;
27-NOV-1998;
16-FEB-1999;
                                                                                                                                                                                                                                                                                                                                 Gore
                                                                                                                        Sequence
                                                                                                                                                                                                                                                                   Non-endogenous, human G protein-coupled receptor, inverse or partial agonists useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13-OCT-1998;
12-NOV-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20-APR-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200022131-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mutant
                                                                                                                                                                                                                                                Example 2; Page 153-155; 187pp; English.
                                                                                                                                                                                                                                                                                                                                                              (AREN-)
                                        8
                                                             1 EDGIKRIQDD 10
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                                       EDGIKRIQDD 17
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                                                                                                                        360
                                                                               100.0%; ilarity 100.0%; Conservative 0
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990S-0123949.
990S-0123949.
990S-0123951.
990S-0136436.
990S-0136439.
990S-0137127.
990S-0137137.
990S-0141448.
990S-0151114.
990S-0156633.
990S-0156633.
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99US-0123944.
99US-0123945.
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                                                                                                                                                                                                                                                                                                                                 Lin
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                                                                                 0
                                                                              Score 10; DB 21;
Pred. No. 0.00086;
Mismatches 0;
                                                                                                                                                                                                                                                                   receptors for screening seful as therapeutic agents
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                                                                                                                                                                                                                                                                                                                                           Chen
                                                                                                  Length 360;
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RESULT 13
AAG11661
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Best Local
                                                                                                                                                                                                                                                                                                                                                                       AAR67111-13 are anti-contraction peptides derived from naturally occurring polypeptides that contain proline or proline/cysteine brackets. These peptides are shortened to form fragments that contain one or more interaction sites of interest. AAR67111-113 are deriv. From angiotensin II receptor (type I). The dose is 1-200 micromoles. The peptides interact with angiotensin II and inhibits its ability to induce contraction. The data collected demonstrates that interaction sites possess activity when present in a polypeptide that differs from the native form. Inclusion of conformation-constraining mojeties can have
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Peptide homologue or analogue with constrained conformation - has proline residues flanking the interaction site to impart greater, or more stable, biological activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 anti-contraction peptide; angiotensin II receptor type I;
                                                Arabidopsis
                                                                         17-OCT-2000
                                                                                                                            AAG11661 standard;
                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                       peptides.)
                                                                                                                                                                                                                                                                                                                                               desirable effects on an interaction site. (Also see AAR67011-110 and AAR67114-52 for analogues of other biologically active peptides contg.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 3;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23-APR-1993;
29-OCT-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      mimic; interaction
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Anti-contraction peptide (ACFP-ATIRA) contg. proline brackets
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30-JUN-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAR67111 standard; peptide;
                      Protein identification; signal transduction pathway; metabolic
                                                                                                    AAG11661;
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(KINI/) KINI R M.
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                                                                                                                                                                                                                                                                                                                                      nteraction site
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                                                                                                                                                                                                                    4 IKRIQDD 10
                                                                                                                                                                                            IKRIQDD
                                                                                                                                                                                                                                            7; Conserv
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                                                                                                                                                                                                                                                                                               13
                                               thaliana protein fragment SEQ ID NO: 10462.
                                                                                                                                                                                                                                             Conservative
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                                                                        (first entry)
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                                                                                                                                                                                                                                                                                               AA;
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93US-0143364.
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                                                                                                                                                                                                                                                                                                                                   flanked by conformation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      site; constrained conformation;
                                                                                                                              Protein;
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0; Mismatches
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                                                                                                                                                                                                                                                        DB 15;
D. 0.13;
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                                                                                                                                                                                                                                            0;
                      pathway;
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hybridisation assay; termination sequence.

genetic

mapping; gene expression

control;

promoter;

06 MAY 1999 11 MAY 1999 11 MAY 1999 11 MAY 1999 14 MAY 1999 14 MAY 1999 14 MAY 1999 14 MAY 1999 16 MAY 1999 27 MAY 1999 28 MAY 1999 27 MAY 1999 28 MAY 1999 29 MAY 1999 21 MAY 1999 21 MAY 1999 21 MAY 1999 22 MAY 1999 23 JUN 1999 26 JUN 1999 27 MAY 1999 28 MAY 1999 29 MAY 1999 21 JUN 1999	psis 05-A2 2000. 2000. 2000. 2000. 1999; 1999; 1999; 1999; 1999; 1999; 1999; 1999; 1999; 1999; 1999; 1999; 1999;
990S-0132487 990S-013428 990S-0134218 990S-0134218 990S-0134219 990S-0134219 990S-0135124 990S-0135124 990S-0135124 990S-013523 990S-0136221 990S-0136221 990S-0137528 990S-0137528 990S-0137528 990S-0137528 990S-0137528 990S-0137528 990S-0137528 990S-0139452 990S-0139452 990S-0139452 990S-0139453	thaliana
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22. JUL 1999; 23. JUL 1999; 23. JUL 1999; 23. JUL 1999; 24. JUL 1999; 27. JUL 1999; 28. JUL 1999; 29. AUG 1999; 20. AUG 1999; 20. AUG 1999; 20. AUG 1999; 21. AUG 1999; 22. AUG 1999; 23. AUG 1999; 24. AUG 1999; 25. AUG 1999; 27. AUG 1999; 28. AUG 1999; 29. AUG 1999; 29. AUG 1999; 20. AUG 1999; 20. AUG 1999; 20. AUG 1999; 20. AUG 1999; 21. AUG 1999; 22. AUG 1999; 23. AUG 1999; 24. AUG 1999; 25. AUG 1999; 26. AUG 1999; 27. AUG 1999; 27. AUG 1999; 28. AUG 1999; 29. AUG 1999; 29. AUG 1999; 20. AUG 1999; 20	29-JUN-1999 30-JUN-1999 01-JUL-1999 01-JUL-1999 08-JUL-1999 08-JUL-1999 11-JUL-1999 11-JUL-1999 11-JUL-1999 11-JUL-1999 11-JUL-1999 11-JUL-1999 119-JUL-1999 119-JUL-1999 119-JUL-1999 119-JUL-1999 119-JUL-1999 119-JUL-1999 119-JUL-1999 119-JUL-1999 119-JUL-1999 119-JUL-1999 119-JUL-1999 119-JUL-1999 119-JUL-1999 119-JUL-1999 119-JUL-1999 119-JUL-1999 119-JUL-1999 119-JUL-1999 121-JUL-1999
99US-0145192. 99US-0145193. 99US-0145214. 99US-0145218. 99US-0145218. 99US-0145218. 99US-014528. 99US-014638. 99US-0147704. 99US-0147704. 99US-0147704. 99US-0147726. 99US-01477192. 99US-01477193. 99US-01477193. 99US-01477193. 99US-0148311. 99US-0148341. 99US-014936. 99US-0149372. 99US-0149372. 99US-0149373. 99US-014933. 99US-014933. 99US-014933. 99US-0151066. 99US-0151066. 99US-0151066. 99US-0151068.	03.011,000,000,000,000,000,000,000,000,000

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Best Local S
Matches 6
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16-SEP-1999
16-SEP-1999
20-SEP-1999
22-SEP-1999
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24-SEP-1999
24-SEP-1999
29-SEP-1999
04-OCT-1999
05-OCT-1999
06-OCT-1999
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22-OCT 1999;
25-OCT 1999;
25-OCT 1999;
25-OCT 1999;
26-OCT 1999;
26-OCT 1999;
26-OCT 1999;
26-OCT 1999;
28-OCT 1999;
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14 - OCT - 1999
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18 - OCT - 1999
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22 - OCT - 1999
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12-OCT-1999;
13-OCT-1999;
13-OCT-1999;
13-OCT-1999;
14-MAY-1997;
                  20-NOV-1997.
                                    WO9743410-A1
                                                      Mus musculus
                                                                         Friend virus susceptibility gene; Fv1; Fv1n; mouse; retrovirus; infection; antiviral; virucide.
                                                                                                    Mouse Friend virus susceptibility 1 gene (Fv1n allele) protein.
                                                                                                                        08-JUN-1998
                                                                                                                                           AAW26782;
                                                                                                                                                             AAW26782 standard; Protein; 440
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14-OCT-1999
                                                                                                                                                                                                           33 KRIQDD 38
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                                                                                                                                                                                                                             KRIQDD 10
                                                                                                                                                                                                                                                h 60.0%; Score 6; DB Similarity 100.0%; Pred. No. 6. 6; Conservative 0; Mismatches
                                                      strain AKR/J
                                                                                                                       (first entry)
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990S-0154018
990S-0154039
990S-0154779
990S-0155139
990S-0155486
990S-0155459
990S-0156458
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990S-0157753
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990S-0160980.

990S-0160989.

990S-0161404

990S-0161406.

990S-0161406.

990S-0161359.

990S-0161359.

990S-0161361.

990S-0161920.

990S-0161992.

990S-0161992.

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990S-0161992.

990S-0161992.
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99US-0160770.
99US-0160814.
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99US-0159584.
99US-0160741.
99US-0160767.
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99US-0159330.
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99US-0159637.
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99US-0158029.
97WO-GB01311.
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5. 6.7;
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RESULT 15
ABB65401
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Best Local S
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AAT99572) isolated from mouse strain C57BL/6 and additionally differs at amino acids 358 and 399. Fyl transcripts can not be detected by Northern blotting, suggesting very low levels of in vivo expression. Claimed host cells can be used for the recombinant production of Fvl polypeptide. The polypeptide inhibits retroviral integration into newly infected cells. Fragments of the polypeptide can be used as antiviral agents. Modulators of the polypeptide, or modified forms of the polypeptide, may be useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This polypeptide is the encoded product of the Fvln allele (see AAT99573) of the Friend virus susceptibility 1 (Fvl) gene located on mouse chromosome 4. It differs in the C-terminal region from the Fvln protein (see AAW26781) encoded by the Fvlb allele (see
                         WPI; 2001-656860/75.
N-PSDB; ABL09504.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     antiviral agent development
                                                                                                                       23-MAR-2000;
11-JUL-2000;
                                                                                                                                                               23-MAR-2001;
                                                                                                                                                                                                                                                  Drosophila melanogaster
                                                                                                                                                                                                                                                                             pharmaceutical.
                                                                                                                                                                                                                                                                                        Drosophila; developmental biology; cell signalling; insecticide;
                                                                                                                                                                                                                                                                                                                  Drosophila melanogaster polypeptide SEQ ID NO 22995
                                                                                                                                                                                                                                                                                                                                               26-MAR-2002 (first entry)
                                                                                                                                                                                                                                                                                                                                                                            ABB65401;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 1; Page 41-44; 55pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Murine Friend virus susceptibility 1 inhibits retroviral integration into
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1998-008879/01.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14-MAY-1996;
New isolated nucleic acid detection reagent for detecting 1000 or more
                                                                                            (PEKE ) PE
                                                                                                                                                                                            27-SEP-2001.
                                                                                                                                                                                                                      WO200171042-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 EDGIKR 6
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                                                                  JC,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention is useful in developmental biology and in elucidating cell signalling and cell-cell interactions in higher eukaryotes for the development of insecticides, therapeutics and pharmaceutical drugs. The invention discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA sequences (ABL01840-ABL16175) and the encoded proteins (ABB57037-ABB72072).

The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at fire wipo.int/pub/published_pct_sequences.
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A;Gene: GDB:AGTR1	ical prote
C:Genetics carracted from Nobe parabolic (Noben Figure 1997)	hypothet
A;Cross references: GB:M93394; NID:9178680; PID:9178681	surfacta
A; Residues: 1-359 <cur></cur>	ical prote
A; Molecule type: mRNA	ke retroel
A.Status: preliminary	cal prote
A: Reference indimer: A44014; MOTH: 323/3103; FMID: 1306224	transport
A;Title: Genetic analysis of the human type-I anglotensin II receptor.	L/alpha-mo
Mol. Endocrinol. 6, 1113-1118, 1992	serine/th
R;Curnow, K.M.; Pascoe, L.; White, P.C.	ical prote
A; Experimental source: liver	ck protein
A; Residues: 1-359 <tak></tak>	nsport sy
A; Molecule type: mRNA	serine/th
A; Reletence number: https://www.seletence.com/seletence	ical prote
A;TILLE: MOLECULAR CIONING, Sequence analysis and expression of a CDNA encoding numan	cal prote
Biochem. Biophys. Res. Commun. 183, 910-916, 1992	ubiquinol
R;Takayanagi, R.; Ohnaka, K.; Sakai, Y.; Nakao, R.; Yanase, T.; Haji, M.; Inagami, T.	sin II rec
A; Experimental source: liver	II
A;Cross-references: GB:M87290; NID:q178682; PIDN:AAA35535.1; PID:q178683	H
A; Residues: 1-359 <ber></ber>	::
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A; Experimental source: lymphocyte	: :
A; Cross references: EMBL: Z11162; NID: 928709; PID: 928710	lon
A; Residues: 1-359 < FUR>	
A; Molecule type: DNA	
A;Accession: JQ1402	
A; Reference number: JQ1402; MUID:92181475; PMID:1543512	
A;Title: Molecular cloning and sequencing of the gene encoding human angiotensin II t	
Biochem. Biophys. Res. Commun. 183, 8-13, 1992	printed,
R:Firuta H: Guo, D.F.: Inagami, T.	2
A: Potecute type: DNA	
A; Accession: JC1104	
A; Reference number: JC1104; MUID:92337608; PMID:1378723	
A;Title: Cloning, expression, and characterization of a gene encoding the human angio	
Biochem. Biophys. Res. Commun. 186, 277-284, 1992	
R. Mauzy, C.A.: Hwang, O.: Egloff, A.M.: Wu, L.H.: Chung, F.Z.	
C;Date: 09-001-1992 #sequence_revision 09-001-1992 #text_change zi-uui-zuuu C:Archesion: TC1104. TC1402- TH0574:TH0575- A44014. S18983	
C; Species: Homo sapiens (man)	
N,Alternate names: angiotensin II receptor 1A	
angiotensin II receptor type 1 - human	

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A; Cross-references: GDB:132359; OMIM:106165
A; Map position: 3q21-3q25
C; Superfamily: vertebrate rhodopsin
C; Keywords: G protein-coupled receptor; glycoprotein; hormore, Superfamily: vertebrate rhodopsin
C; Keywords: G protein-coupled receptor; glycoprotein; hormore, Superfamily: transmembrane #status predicted <TM1>
F; 30-53/Domain: transmembrane #status predicted <TM2>
F; 65-90/Domain: transmembrane #status predicted <TM3>
F; 103-124/Domain: transmembrane #status predicted <TM4>
F; 145-167/Domain: transmembrane #status predicted <TM5>
F; 241-264/Domain: transmembrane #status predicted <TM6>
F; 281-305/Domain: transmembrane #status predicted <TM6>
F; 281-305/Domain: transmembrane #status predicted <TM7>
F; 281-305/Domain: transmembrane #status predicted <TM5>
F; 281-305/Domain: transmembrane #status predicted <TM5>
F; 281-305/Domain: transmembrane #status predicted <TM5>
F; 281-305/Domain:
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A;Title: Analysis of the evolution of angiotensin II type 1 receptor gene in mammals (md A;Reference number: JC1193; MUID:92359981; PMID:1497638
A;Accession: JC1194
A;Accession: JC1194
A; Experimental C; Superfam'
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A;Title: Cloning, characterization, and expression of two angiotensin receptive and expression of two angiotensin receptive and two sections of two angiotensin receptive and the section of two angiotensis and the section of two angioten
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C;Species: Mus musculus (house mouse)
C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change 05-Nov-1999
C;Accession: JC1194; JH0622
R;Yoshida, H.; Kakuchi, J.; Guo, D.F.; Furuta, H.; Iwai, N.; van der Meer-du
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R;Burns, L.; Clark, K.L.; Bradley, J.; Robertson, M.J.; Clark, A.J.L. FEBS, Lett. 343, 146-150, 1994
A;Title: Molecular cloning of the canine angiotensin II receptor. An A;Reference number: S44425; MUID:94222188; PMID:8168620
A;Accession: S44425
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                                            A;Molecule type: DNA
A;Molecule type: DNA
A;Residues: 1-6,'I',8-165,'H',167-172,'E',174-204,'V',206-231,'T',233-238,'F',240-359
A;Cross-references: GB:S37491; NID:g249947; PIDN:AAB22270.1; PID:g249948
A;Experimental source: Balb/c
A;Experimental source: Balb/c
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A; Residues: 1-359 <Y
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A; Residues: 1-359 <BUR>
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C;Species: Canis lupus familiaris (dog)
C;Date: 19-Mar-1997 #sequence_revision
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C;Keywords: G protein-coupled receptor; glycoprotein; phosphoprotein; transmembrane r; 30-53/Domain: transmembrane #status predicted <TM1> r:65-90/Domain: transmembrane #status predicted <TM2> r:103-123/Domain: transmembrane #status predicted <TM2> r; 147-166/Domain: transmembrane #status predicted <TM4> r; 147-166/Domain: transmembrane #status predicted <TM4> r; 147-166/Domain: transmembrane #status predicted <TM5> r; 240-263/Domain: transmembra
R:Iwai, N.; Inagami, T.
FBBS Lett. 298, 257-260, 1992
A;Title: Identification of two subtypes in
A;Reference number: S20423; MUID:92183879;
A;Accession: S20423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C;Species: Rattus norvegicus (Norway rāt)
C;Date: 04-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 08-Oct-1999
C;Accession: A42656; S20423
R;Sandberg, K; Ji, H; Clark, A.J.; Shapira, H.; Catt, K.J.
Biol. Chem. 267, 9455-9458, 1992
A;Title: Cloning and expression of a novel angiotensin II receptor subtype.
A;Reference number: A42656; MUID:92250585; pMID:1374402
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A48857
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                                                                                                                                                                                                               A; Note: sequence extracted from
                                                                                                                                                                                                                                                           A;Cross-references: GB:M90065; NID:g202801; PIDN:AAA40704.1; A;Experimental source: adrenal cortex
                                                                                                                                                                                                                                                                                                                                                   A; Molecule type: mRNA
A; Residues: 1-359 <SAN>
                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Reference number: A42656; A; Accession: A42656
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          angiotensin II receptor type 1B (AT3) - rat N;Alternate names: angiotensin II receptor chain B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C; Keywords: G
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A; Residues: 1-359 <BUR>
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Best Local 9
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Pred. No. 0.00078;
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Pred. No. 0.00078;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                    the rat type I angiotensin II receptor. 
 \ensuremath{\mathsf{PMID}}\xspace:1544458
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                                                                                                                                                                                                                                 NCBIP:100268)
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A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-359 <IWA>
A;Cross-references: GB:X64052; NID:g57521; PIDN:CAA45410.1; PID:g57522
C;Superfamily: vertebrate rhodopsin
                                                                                                                                                                                                                   C;Superfamily: vertebrate rhodopsin
C;Keywords: G protein-coupled receptor; glycoprotein; pho
E;Z7-53/Domain: transmembrane #status predicted <TMM1>
E;65-90/Domain: transmembrane #status predicted <TMM2>
E;103-125/Domain: transmembrane #status predicted <TMM3>
E;145-166/Domain: transmembrane #status predicted <TMM4>
E;149-116/Domain: transmembrane #status predicted <TMM5>
E;149-126/Domain: transmembrane #status predicted <TMM6>
E;278-304/Domain: transmembrane #status predicted <TMM6>
E;278-304/Domain: transmembrane #status predicted <TMM6>
В
                                  S
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A; Residues: 84-119, 'T', 121-224, 'A', 226-259 A; Cross-references: GB:S37461; NID:g249938;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Note: the authors translated the codon AGC for residue 120 as Thr, GTC for K; KaKar, S.S.; Sellers, J.C.; Devor, D.C.; Musgrove, L.C.; Neill, J.D. Biochem. Biophys. Res. Commun. 183, 1090-1096, 1992
A; Title: Angiotensin II type-1 receptor subtype cDNAs: differential tissue A; Reference number: JH0578; MUID:92231868; PMID:1567388
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Biochem.
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A;Residues: 1-74,'L',76-119,'T',121-224,'A',226-359 <KAK>
A;Cross-references: GB:M87003; NID:g202920; PIDN:AAA40739.1;
A;Experimental source: anterior pituitary
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A; Residues: 1-359 <ELT>
                                                                                                                                                                                                                                                                                                                                                                                                                     A;Gene: ATIB
                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Experimental source: kidney
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                                                                              Matches
                                                                                                                     Query Match
                                                                                                                                                               331,338,348/Binding
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                                                                                                                                                                                176,188,344/Binding site: carbohydrate (Asn) 2,323/Binding site: phosphate (Thr) (covalent
                                                                                                    Local
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Characterization of an angiotensin type-
nce number: PH0850; MUID:92287094; PMID:1
                                       EDGIKRIQDD 10
EDGIKRIQDD
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Pred. No. 0.00078;
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 (covalent) #status predicted
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; PIDN:AAB22267.1;
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PMID:1599457
                                                                   DB 2; LC., 0.00078; 0;
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RESULT

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Blochem. Biophys. Res. Commun. 185, 253-259, 1992
A.Title: Cloning, characterization, and expression of two angiotensin receptor (AT-1)
A.Reference number: JH0621; MUID:92287102; PMID:1599461
A.Accession: JH0621
A;Reference number: JC1193; MUID:92359981; PMID:1497638
A;Accession: JC1193
A;Status: nucleic acid sequence not shown
A;Moleonia trace
                                                                         A;Cross-references: GB:S37484; NID:g249945; PIDN:AAB22269.1; A;Experimental source: strain Balb/c R;Yoshida, H.; Kakuchi J.; Guo, D.F.; Furuta, H.; Iwai, N.; Biochem. Biophys. Res. Commun. 186, 1042-1049, 1992 A;Title: Analysis of the evolution of angiotensin II type 1 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Biochem. Biophys. Res. Commun. 199, 467-474, 1994
A;Title: Novel subtype of human angiotensin II type 1 r
A;Reference number: I39418; MUID:94183213; PMID:8135787
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A;Title: Cloning and expression of a complementary DNA encoding a bovine adrenal angia; Reference number: S15403; MUID:91251900; PMID:2041569
A;Accession: S15403
                                                                                                                                                                                                                                                                                                                                            angiotensin II receptor 1A - mouse
C;Species: Mus musculus (house mouse)
C;Date: 17-Aug-1992 #sequence_revision 17-Aug-1992 #text_change 24-Nov-1999
C;Accession: JH0621; JC1193
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    angiotensin II receptor type 1b - C:Species: Homo sapiens (man) C:Date: 29-May-1998 #sequence_revi C:Accession: I39418
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                                                                                                                                                                                          A; Molecule type: DNA
A; Residues: 1-359 <SAS>
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A; Residues: 1-359 < RES>
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A; Residues: 1-359 < SAS>
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Pred. No. 0.00078;
Mismatches 0;
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Biochem. Biophys. Res. Commun. 177, 299-304, 1991
A;Title: Rat angiotensin II receptor: cDNA sequence and r A;Reference number: JQ1055; MUID:91254291; PMID:2043116
A;Molecule +----
A;Molecule +----
C;Comment: AT1 receptor consists of two closely related AT1 isoforms of angiotensin II C;Superfamily: vertebrate rhodopsin C;Superfamily: vertebrate rhodopsin C;Keywords: G protein-coupled receptor; glycoprotein; GTP binding; receptor; transmembr F;27-86/Domain: transmembrane #status predicted <TM1> F;103-123/Domain: transmembrane #status predicted <TM4> F;147-167/Domain: transmembrane #status predicted <TM4> F;147-167/Domain: transmembrane #status predicted <TM5> F;278-293/Domain: transmembrane #status predicted <TM7> F;278-299/Domain: transmembrane #status predicted <TM7> F;278-299/Domain: transmembrane #status predicted <TM7> F;44,176,188/Binding site: carbohydrate (Asn) (covalent) #status predicted
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C;Date: 28-Aug-1985 #sequence_revision 07-Oct-1994 #text_change 24-Nov-1999
C;Accession: JC2134; S15404; S20424; JQ1055
R;Conchon, S.; Monnot, C.; Sirieix, M.E.; Bihoreau, C.; Corvol, P.; Clauser, Biochem. Biophys. Res. Commun. 199, 1347-1354, 1994
A;Title: Synthetic cDNA encoding the rat ATla receptor: a useful tool for stip. A;Reference number: JC2134; MUID:94197726; PMID:8147879
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Residues: 1-6,'I',8-19,'IS',22-37,'M',39-133,'K',135-359 <YOS>C; Superfamily: vertebrate rhodopsin C; Keywords: G protein-coupled receptor; glycoprotein; phosphoprot F; 37-57/Domain: transmembrane #status predicted <TM1>
                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Cross-references: GB:M74054; NID:g202918; PIDN:AAA40738.1; PID:g202919
A;Experimental source: kidney
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A; Residues: 1-80, 'C', 82-108, 'T', 110-359 <IW2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   R; Iwai, N.; Inagami, T.
FEBS Lett. 298, 257-260, 1992
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A; Note: the amino acid sequence of this protein is
R; Murphy, T.J.; Alexander, R.W.; Griendling, K.K.;
Nature 351, 233-236, 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       δÃ
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A;Accession: S20424
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A; Residues: 1-359 <MUR>
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fibrillarin-like protein - Methanococcus voltae N;Alternate names: pre-rNNA-processing protein C;Species: Methanococcus voltae C;Date: 13-Jan-1995 #sequence_revision 13-Jan-19
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A;Cross-references: EMBL:X66592; NID:g45388; PIDN:CAA47149.1; C;Superfamily: heat shock protein hslU; FtsH/SEC18/CDC48-type
RESULT 13
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A; Residues: 1-126 <TIM>
                                                                                                                                                                                                                                                                                                          A;Title: Cloning and molecular analysis of the poly(3-hydroxyalkanoic acid) A;Reference number: S29303; MUID:93011120; PMID:1396693 A;Accession: S29303
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                                                                                                                                                                                                                                                                                                                                                                                                          C;Species: Pseudomonas aeruginosa
C;Date: 10-Mar-1994 #sequence_revision 10-Mar-1994 #text_change
C;Accession: S29303; S28375
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C; Superfamily: ubiquinol-cytochrome-c reductase 11K protein; ubiquinol-cytochrome-c
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A; Residues: 1-62 <STO>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              probable ubiquinol-cytochrome c reductase [imported] - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 17-May-2002
C;Accession: E84420
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Biochem. 209, 15-30, 1992
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les 10; Conserv
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                                                          EDGIKR
                                                                                            EDGIKR 6
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Pred. No. 0.00078;
Mismatches 0;
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ATP-binding
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E.; Umayam, L.; Tallon,
..; Fraser, C.M.; Venter
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#sequence_revision 13-Jan-1995 #text_change 08-Oct-1999

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R;Bult, C.J.; White, O.; Olsen, G.J.; Zhou, L.; Fleischmann, R.D.; Sutton, G.G.; Blake, Reich, C.I.; Overbeek, R.; Kirkness, E.F.; Weinstock, K.G.; Merrick, J.M.; Glodek, A. rson, J.D.; Sadow, P.W.; Hanna, M.C.; Cotton, M.D.; Roberts, K.M.; Hurst, M.A. Science 273, 1058-1073, 1996
A;Authors: Kaine, B.P.; Borodovsky, M.; Klenk, H.P.; Fraser, C.M.; Smith, H.O.; Woese, A;Title: Complete genome sequence of the methanogenic archaeon, Methanococcus jannaschi A;Reference number: A64300; MUID:96337999; PMID:8688087
A;Accession: A64437
                                                                                                                                                        C;Accession: T07660
R;Man, A.L.; Purcell, P.C.; Hannappel, U.; Halford, N.G.
Plant Mol. Biol. 34, 31-43, 1997
Plant Mol. Biol. 34, 31-43, 1997
A;Title: Potato SNF1-related protein kinase: molecular cloning, expression analysis and A;Reference number: Z16075; MUID:97320459; PMID:9177310
A;Accession: T07660
                                                                                                                                                                                                                                                                                                     probable serine/threonine-specific protein kinase (EC 2.7.1.-) PKIN1 - potato (fragment)
N,Alternate names: SNF1-related protein kinase
C;Species: Solanum tuberosum (potato)
C;Date: 14-May-1999 #sequence_revision 14-May-1999 #text_change 21-Jul-2000
C;Accession: T07660
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A;Description: A fibrillarin like protein occurs in archaea.
A;Reference number: S34645
A;Accession: S34646
A; Experimental C; Genetics:
                 A;Cross-references: EMBL:X95996; NID:g1216284; PIDN:CAA65243.1; PID:g1216285
A;Experimental source: cv. Desiree; developing tuber
                                                                                                       A;Status: preliminary; translated from GB/EMBL/DDBJA;Molecule type: mRNA
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A;Molecule type: DNA
A;Residues: 1-228 <AGH>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     C;Accession: S34646
R;Agha Amiri, K.
                                                                                A; Residues: 1-348 <MAN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Map position: REV1039390-1038626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Cross-references: GB:U67552; GB:L77117; NID:g1591737; PIDN:AAB99101.1; PID:g1591742;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C; Superfamily: human fibrillarin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Cross-references: EMBL:X73988; NID:g394799; PIDN:CAA52166.1; PID:g394800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gene:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   139 DGIKRI 144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18 DGIKRI 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              codon: TTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2 DGIKRI 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2 DGIKRI 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        60.0%; Score 6; 1
100.0%; Pred. No.
tive 0; Mismatc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            60.0%; Score 6; DB 2; 100.0%; Pred. No. 13;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 254;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 228;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
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C;Function:
A;Description: catalyzes the formation of peptidyl-serine-phosphate or peptidyl-threo C;Superfamily: AMP-activated protein kinase; protein kinase homology C;Superfamily: AMP-activated protein kinase; protein kinase homology C;Keywords: ATP; phosphotransferase; serine/threonine-specific protein kinase Query Match

Query Match

60.0%; Score 6; DB 2; Length 348;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Search completed: November 12, 2002, 16:20:31 Job time : 18 secs

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5 KRIQDD 10 |||||| 159 KRIQDD 164

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